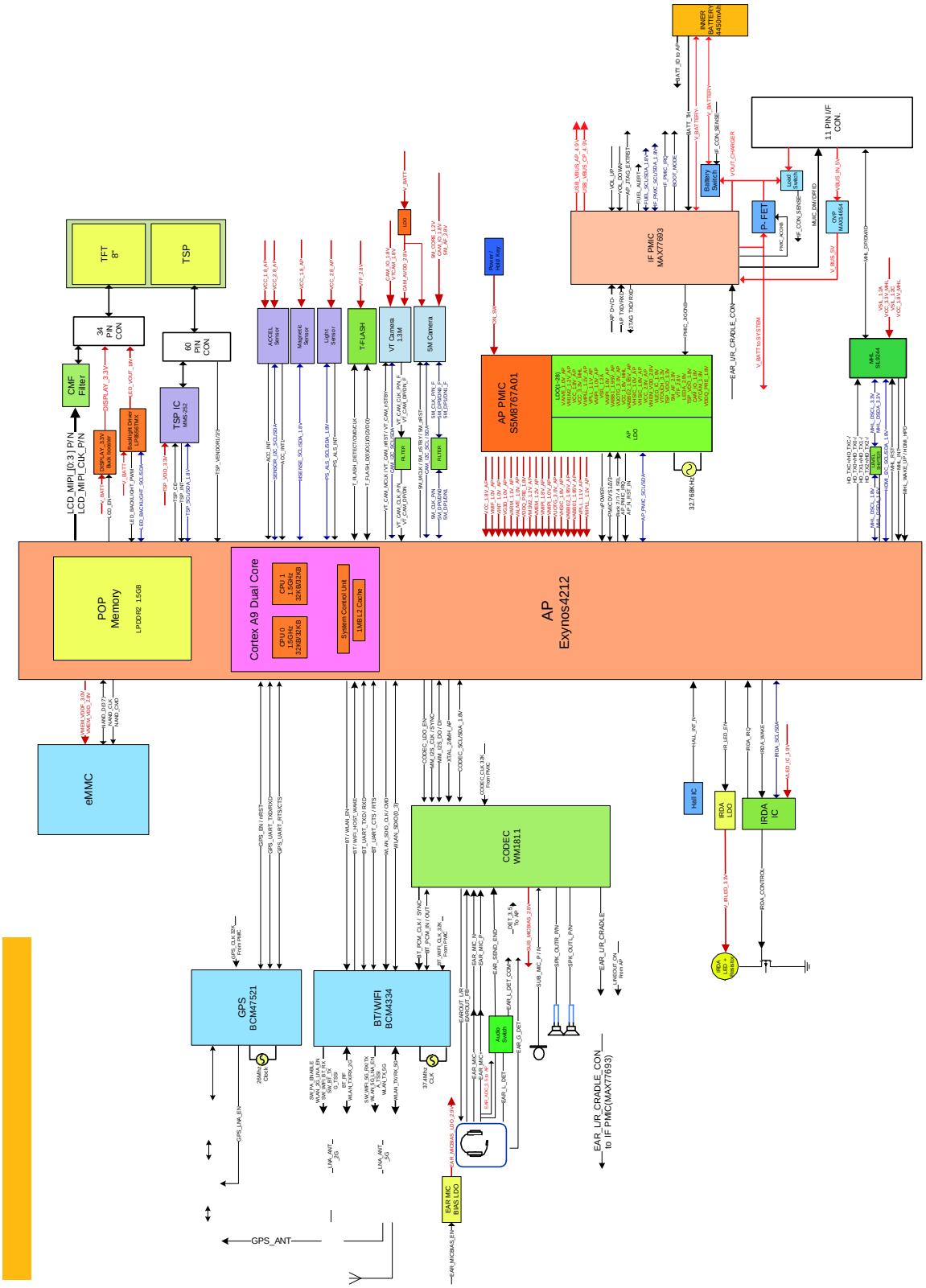
8. Level 3 Repair

8-1. Block Diagram



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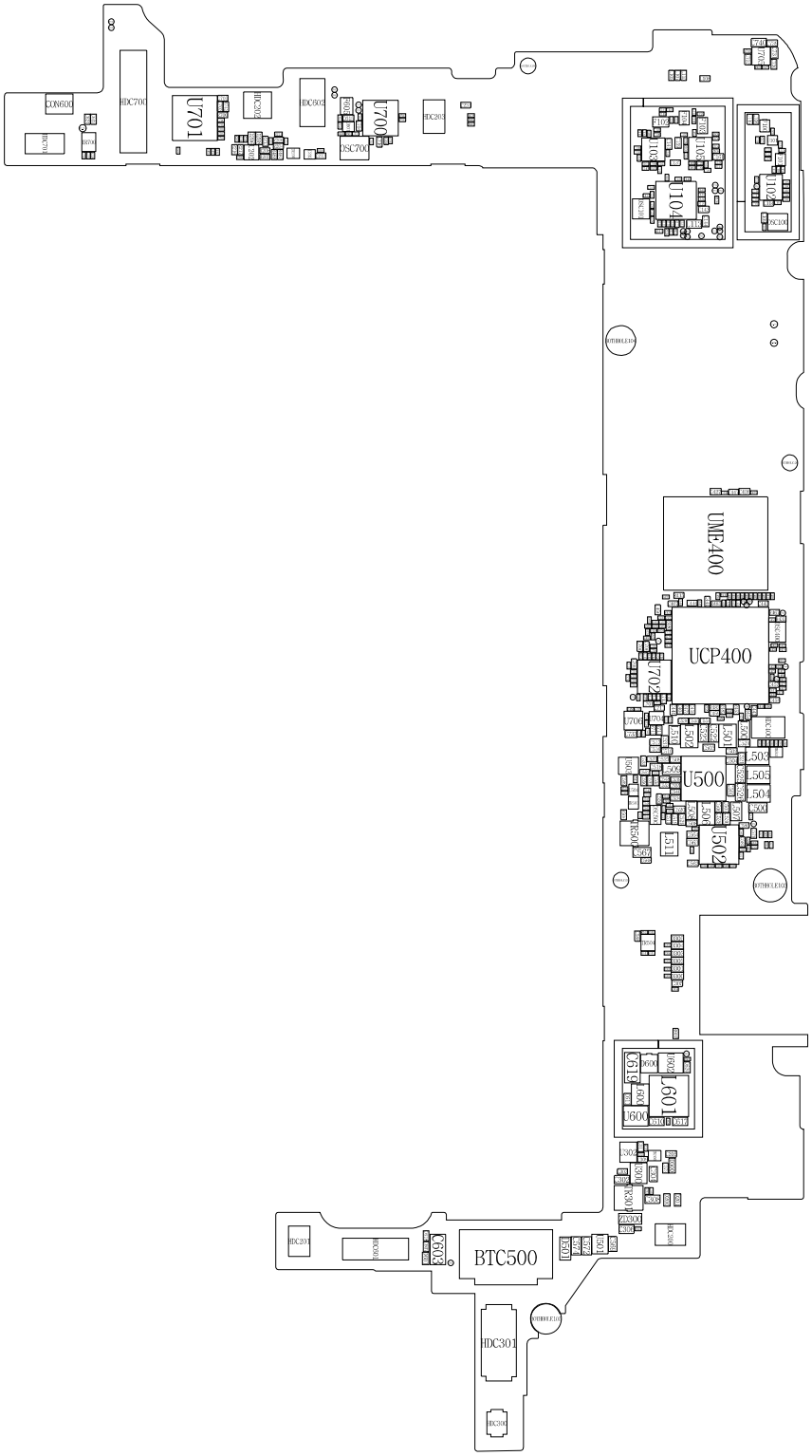
8-2. PCB Diagrams

8-2-1. Top



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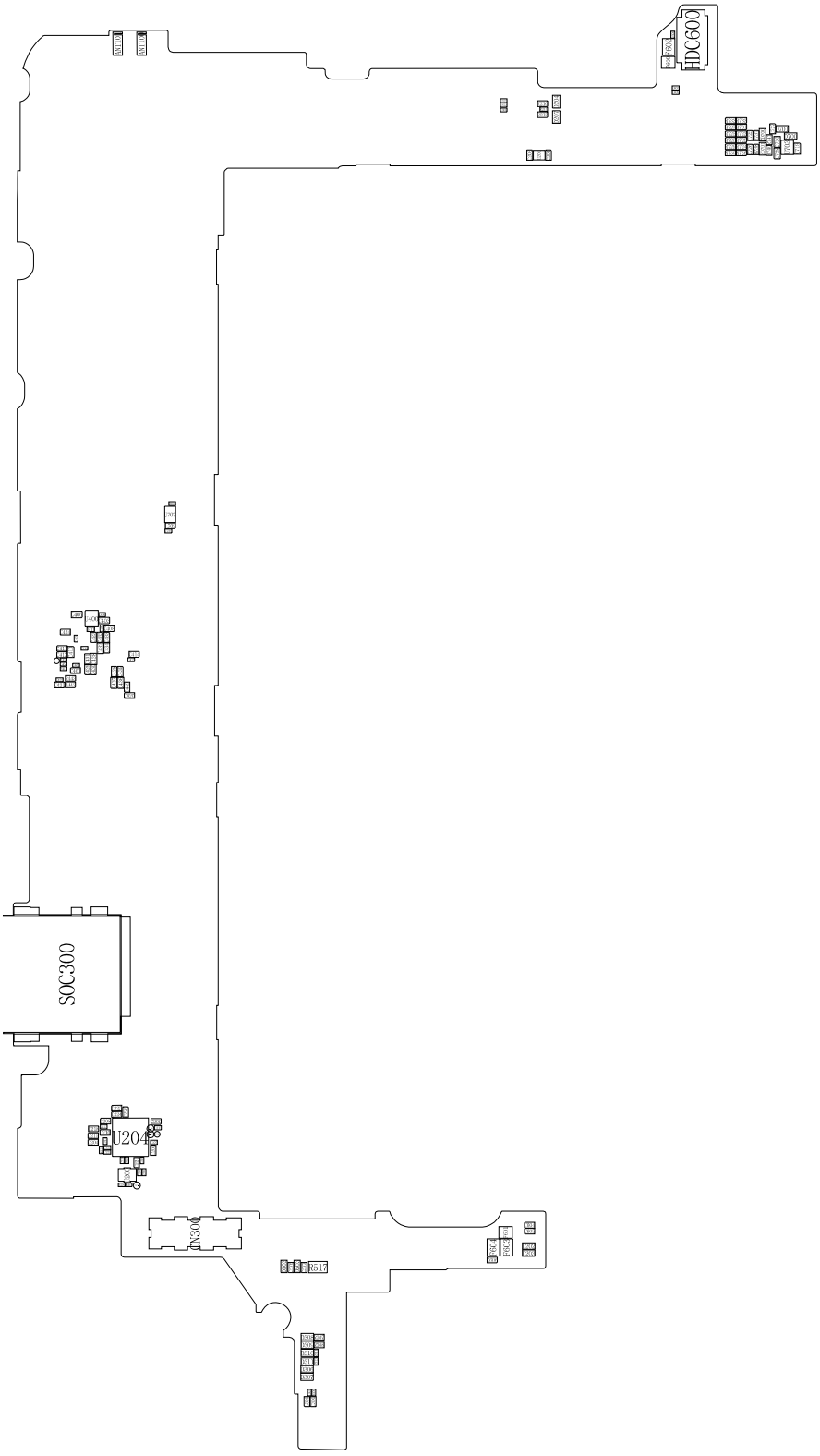
8-2-2. Bottom



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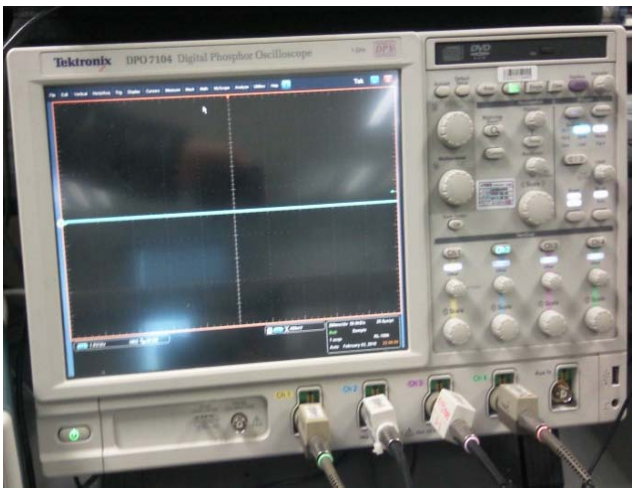
8-3. Flow Chart of Troubleshooting

Equipments

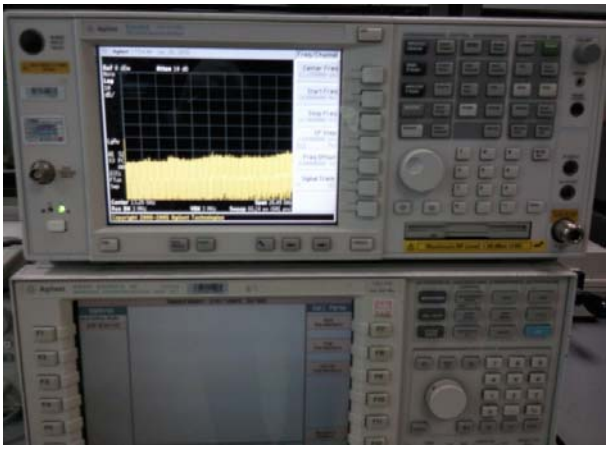


↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply

↑ + driver, ESD Safe Tweezer



↑ 8960 & Spectrum Analyzer

↑ Soldering iron

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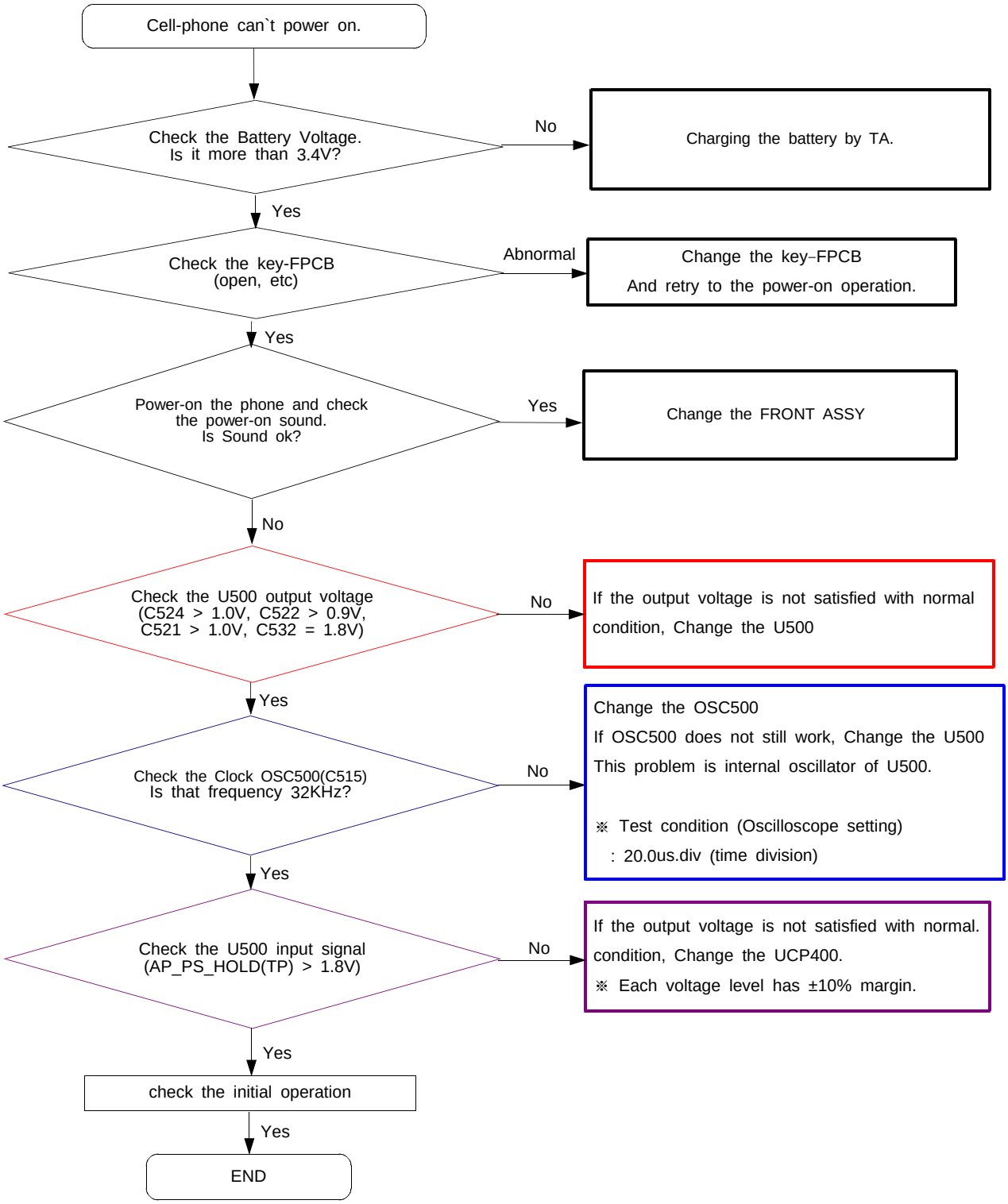
8-3-1. Power On



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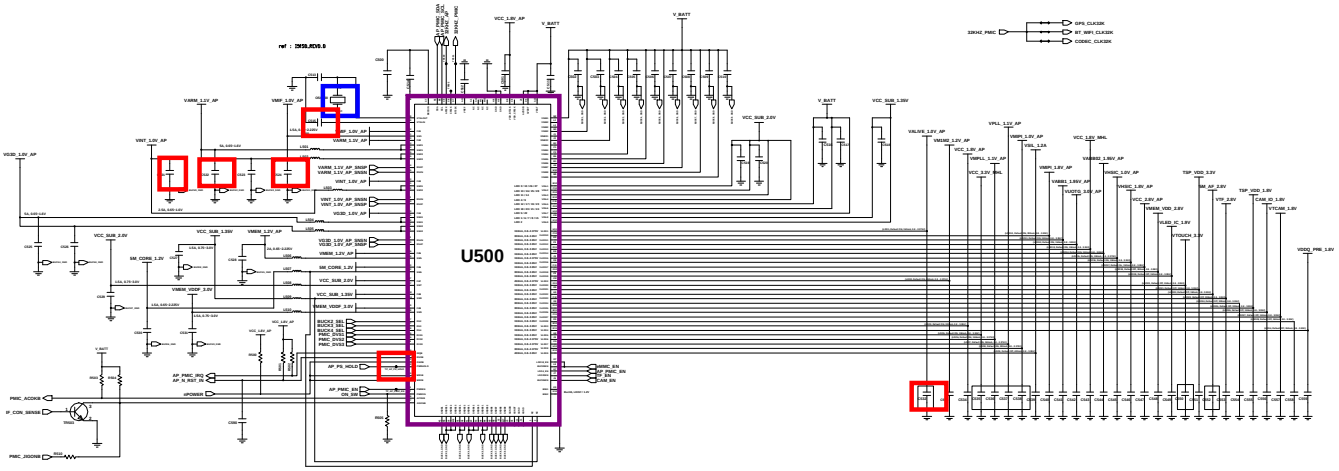

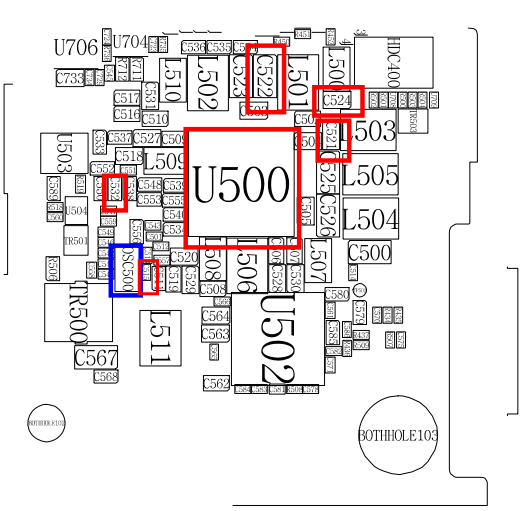

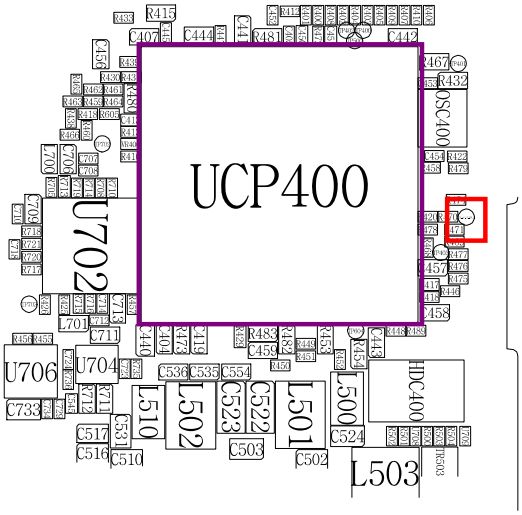

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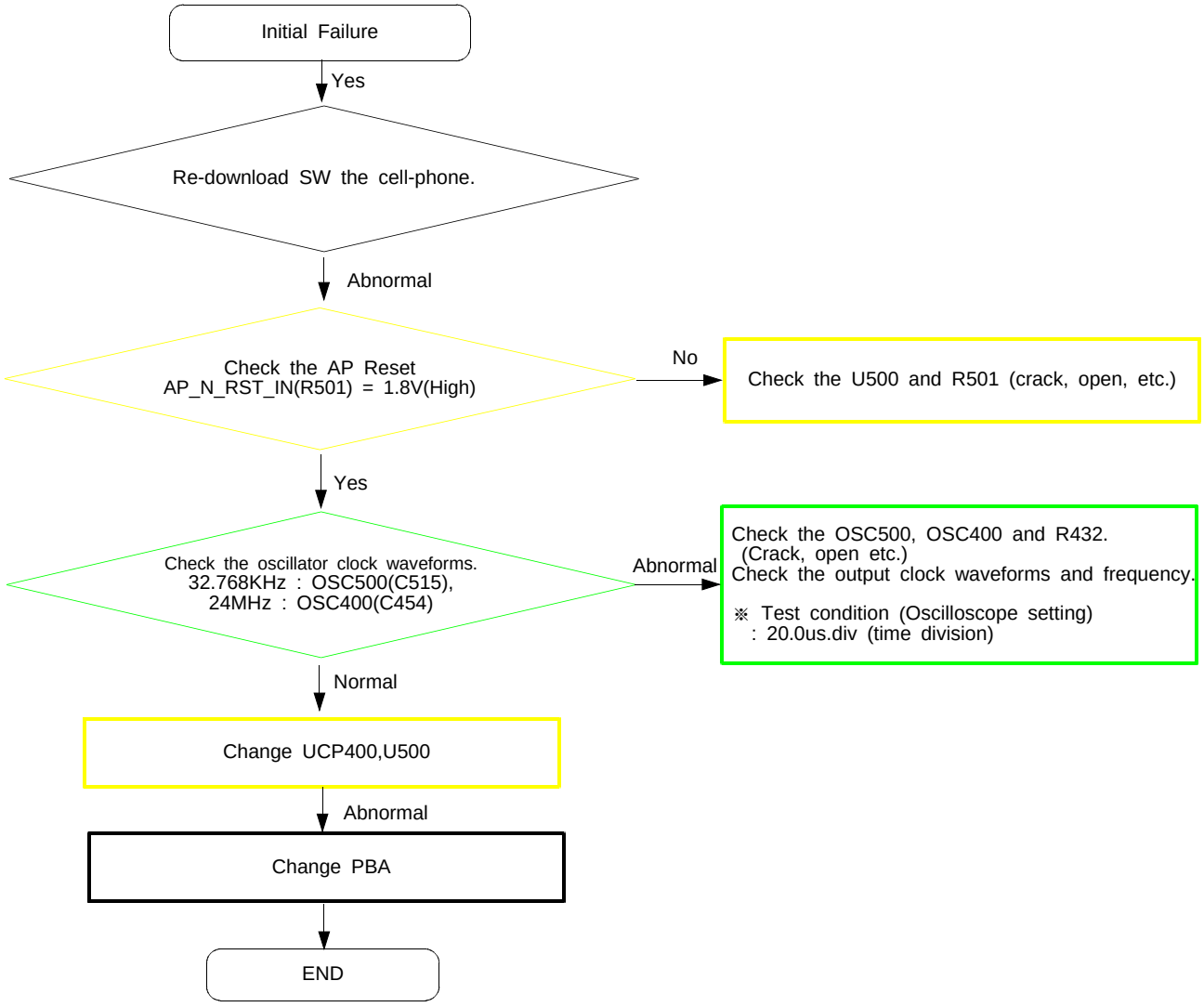
8-3-2. Initial



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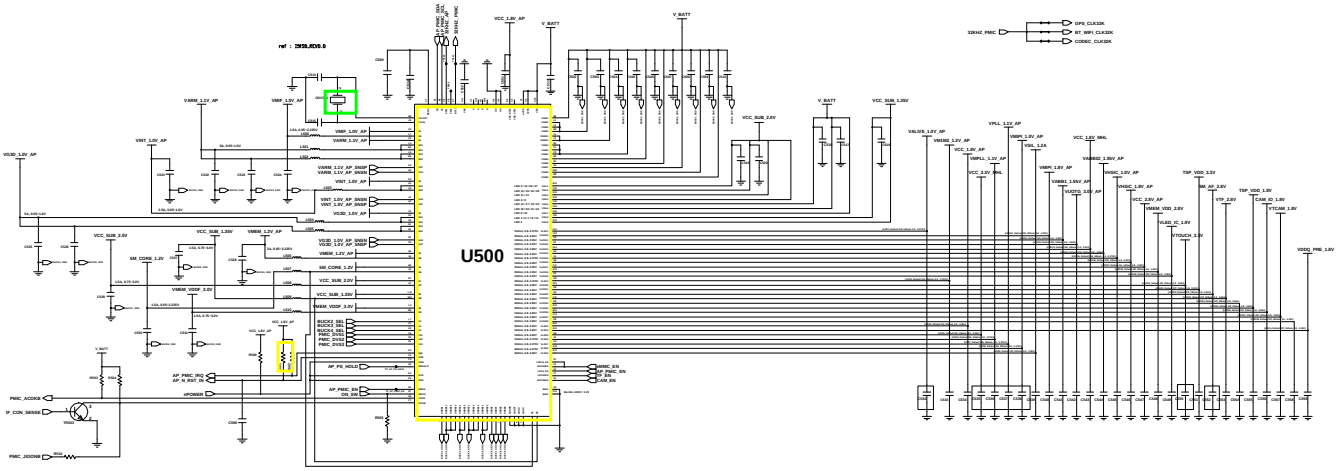
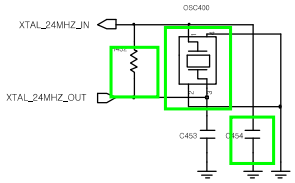
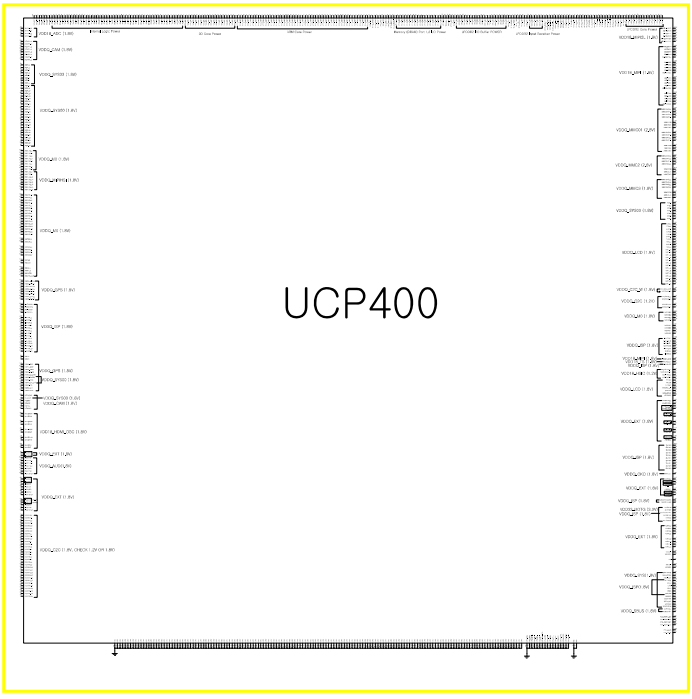


AP CLOCK





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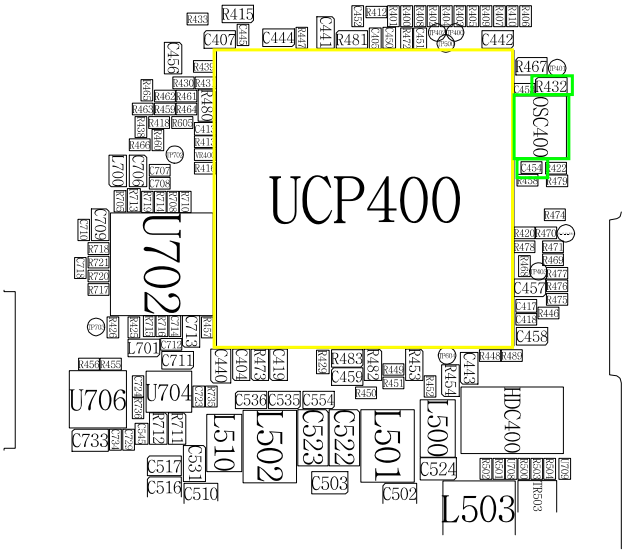

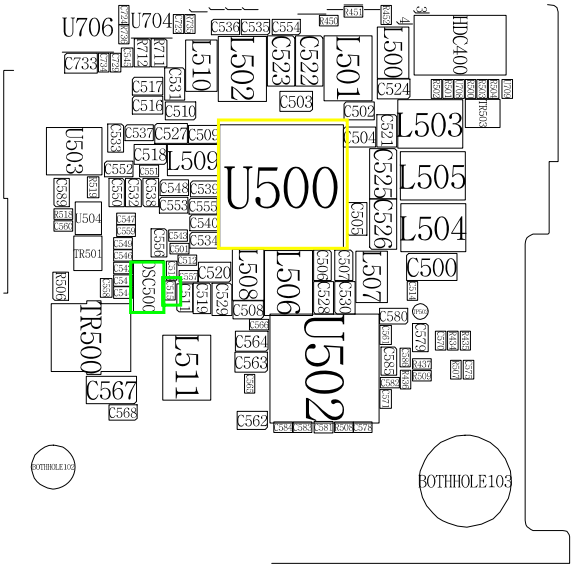

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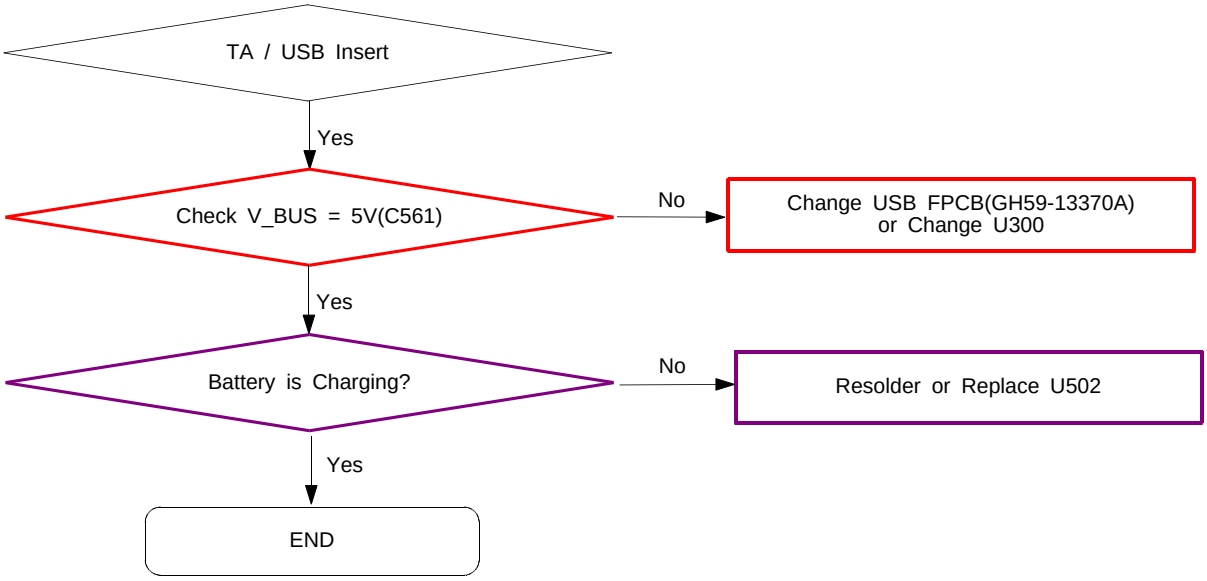
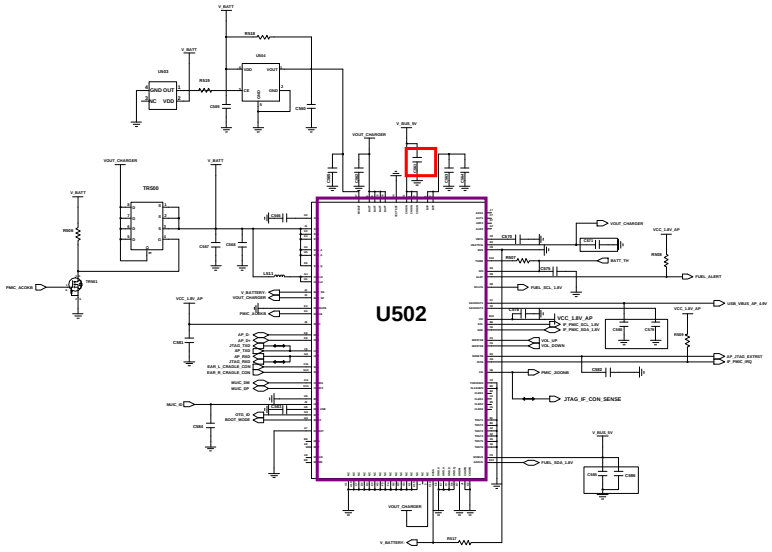
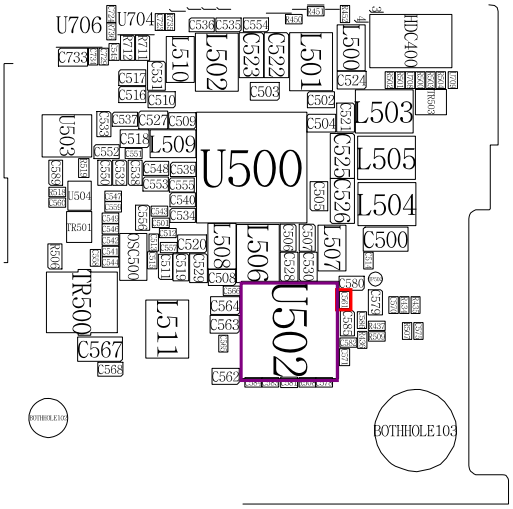
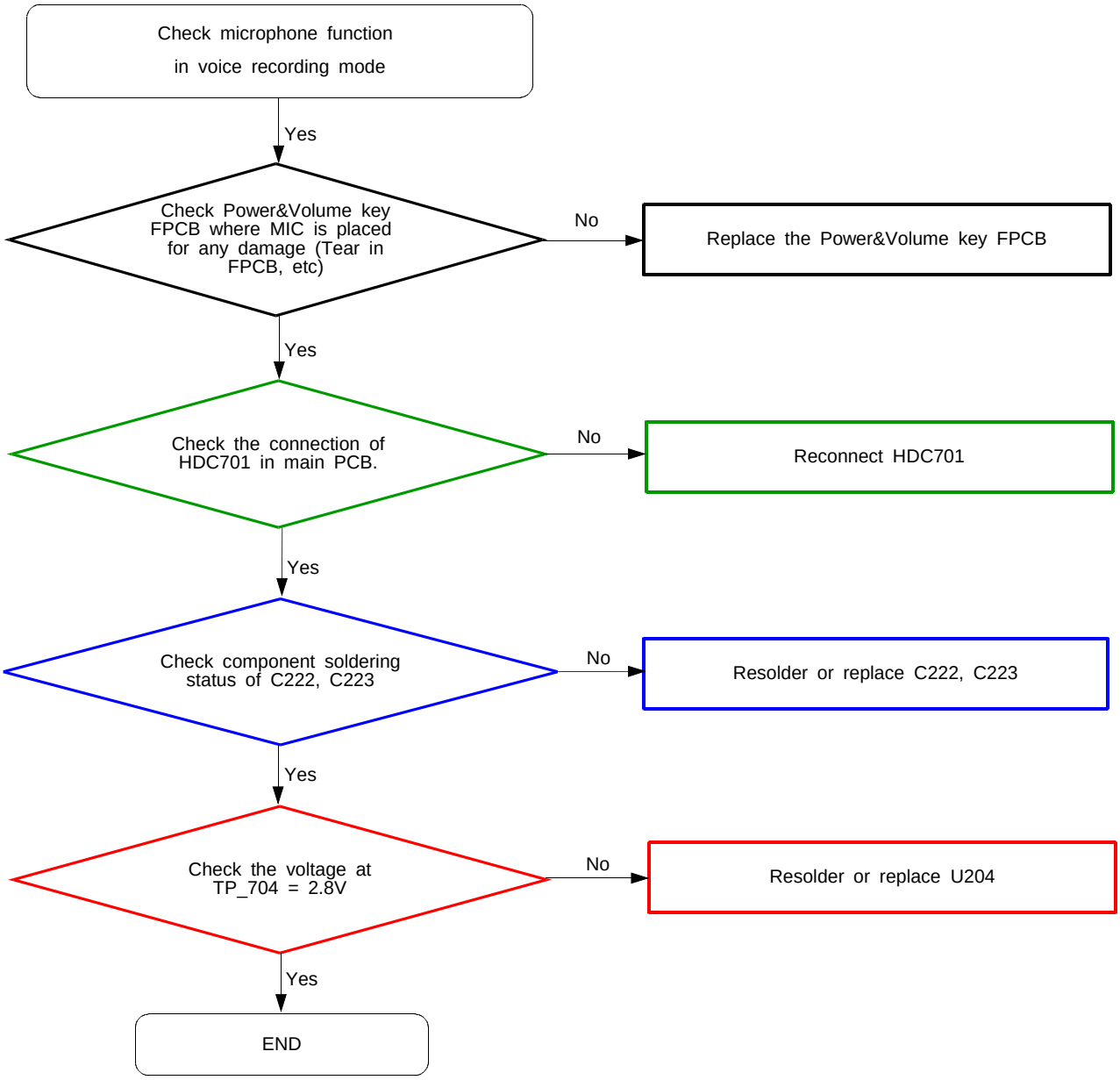
8-3-3. Charging Part







8-3-4. Microphone Part



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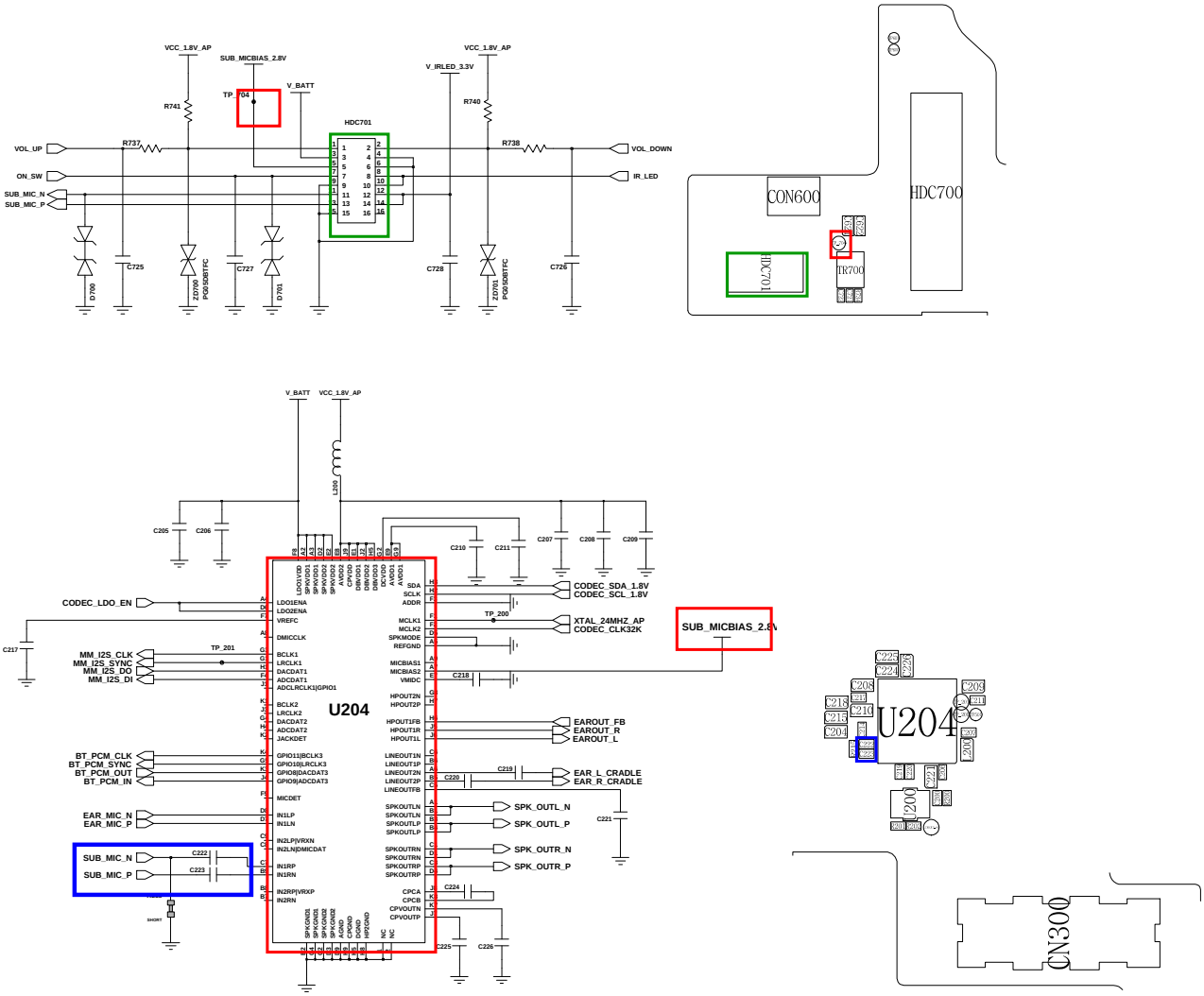

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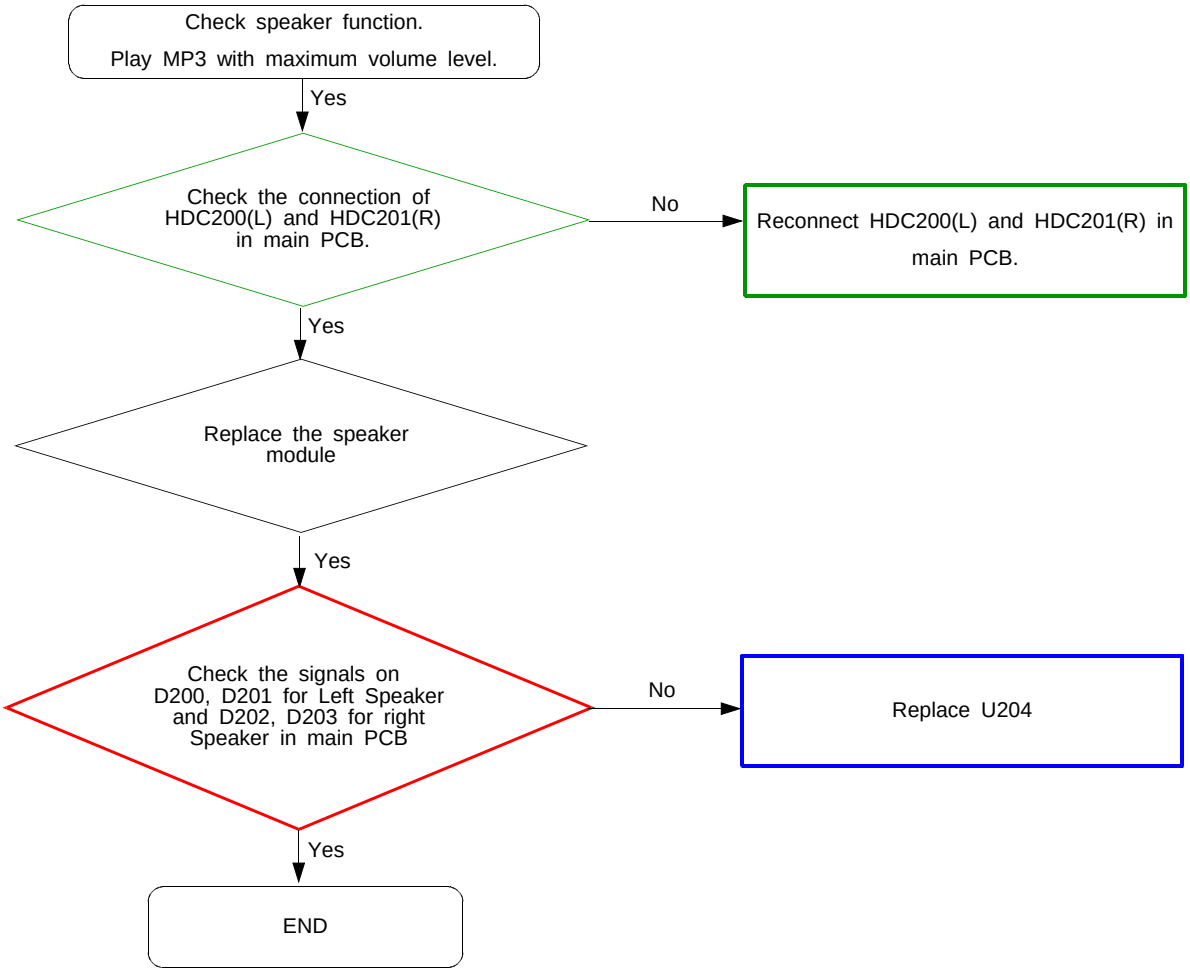
8-3-5. Speaker Part


Check speaker function.
Play MP3 with maximum volume level.
Yes
Check the connection of HDC200(L) and HDC201(R) in main PCB.
No
Reconnect HDC200(L) and HDC201(R) in main PCB.
Yes
Replace the speaker module
Yes
Check the signals on D200, D201 for Left Speaker and D202, D203 for right Speaker in main PCB
No
Replace U204
Yes
END

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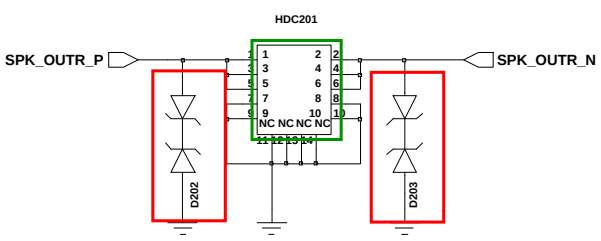
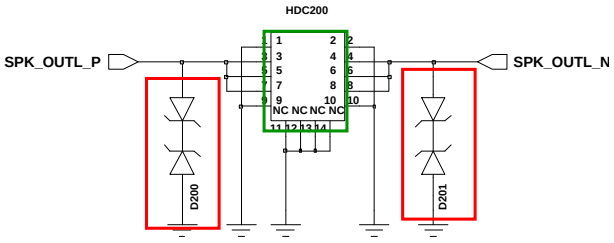
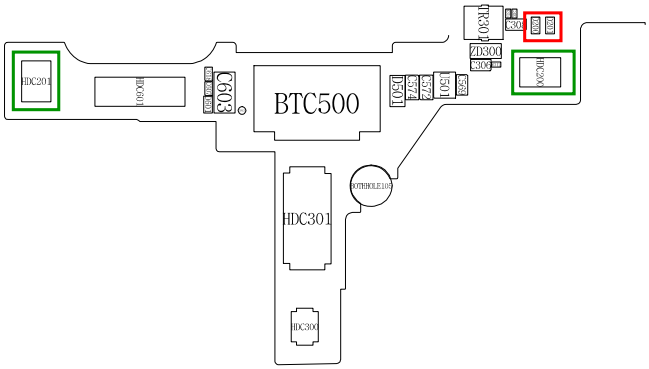
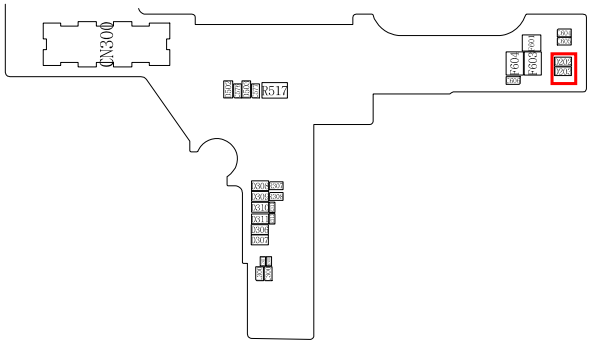


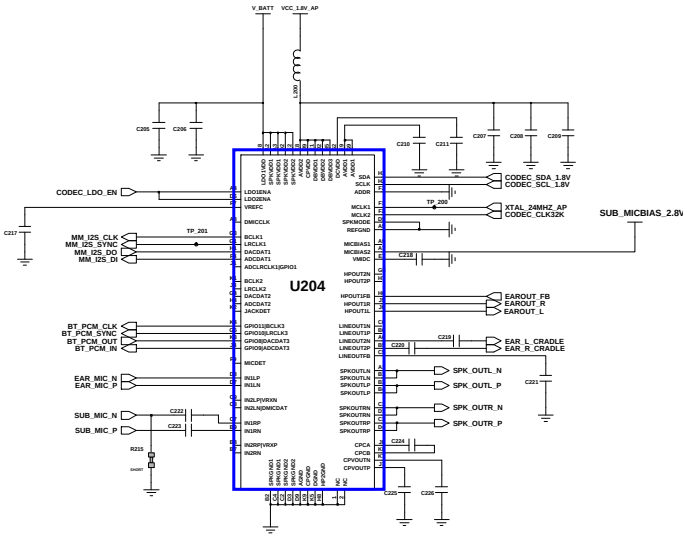
SPK_R CON.

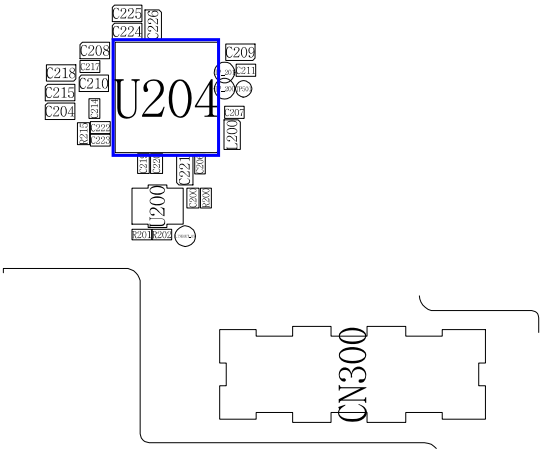


SPK_L CON.









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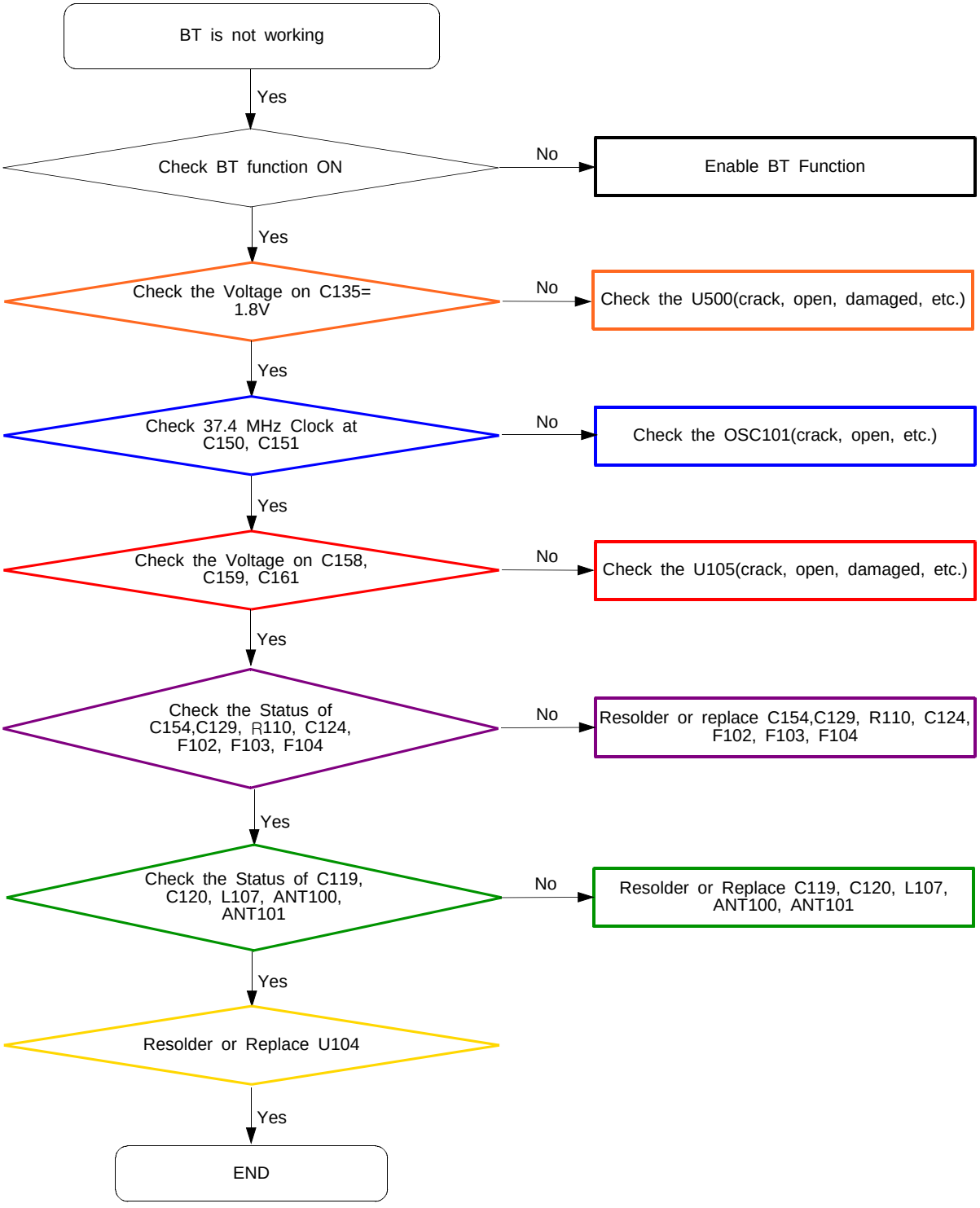
8-3-6. BT Part



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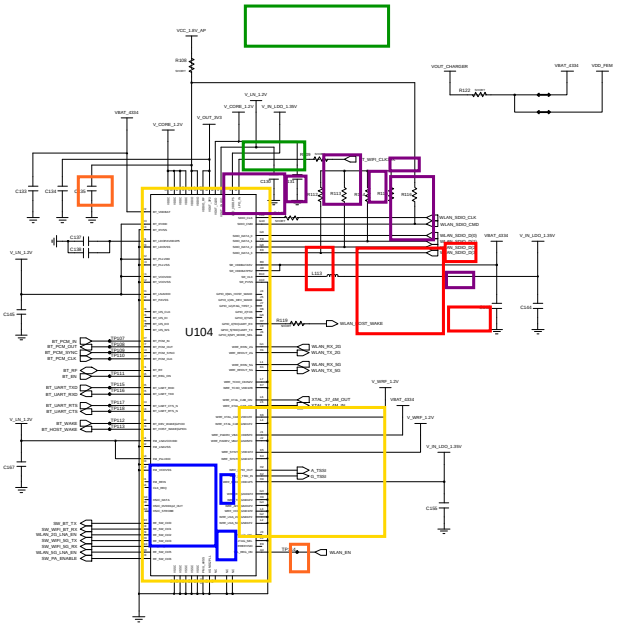
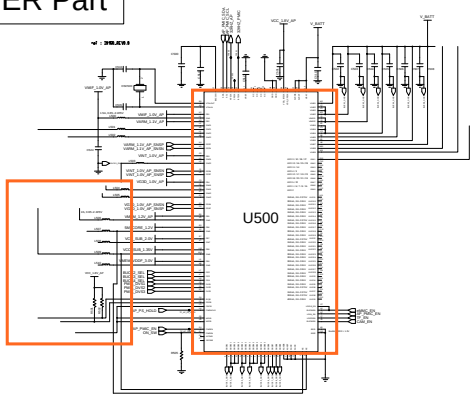
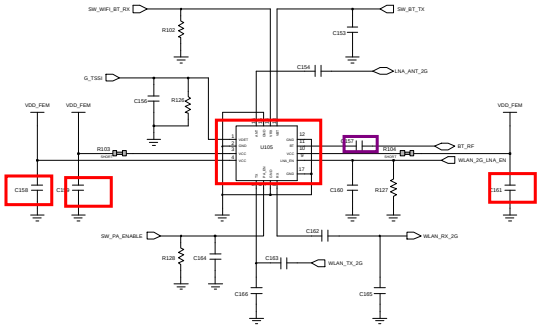
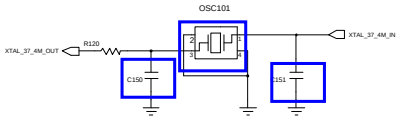


5. POWER Part

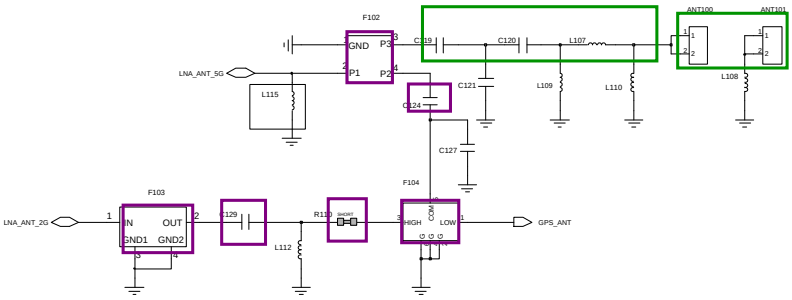




2.5G FEM



BT/WIFI OSC



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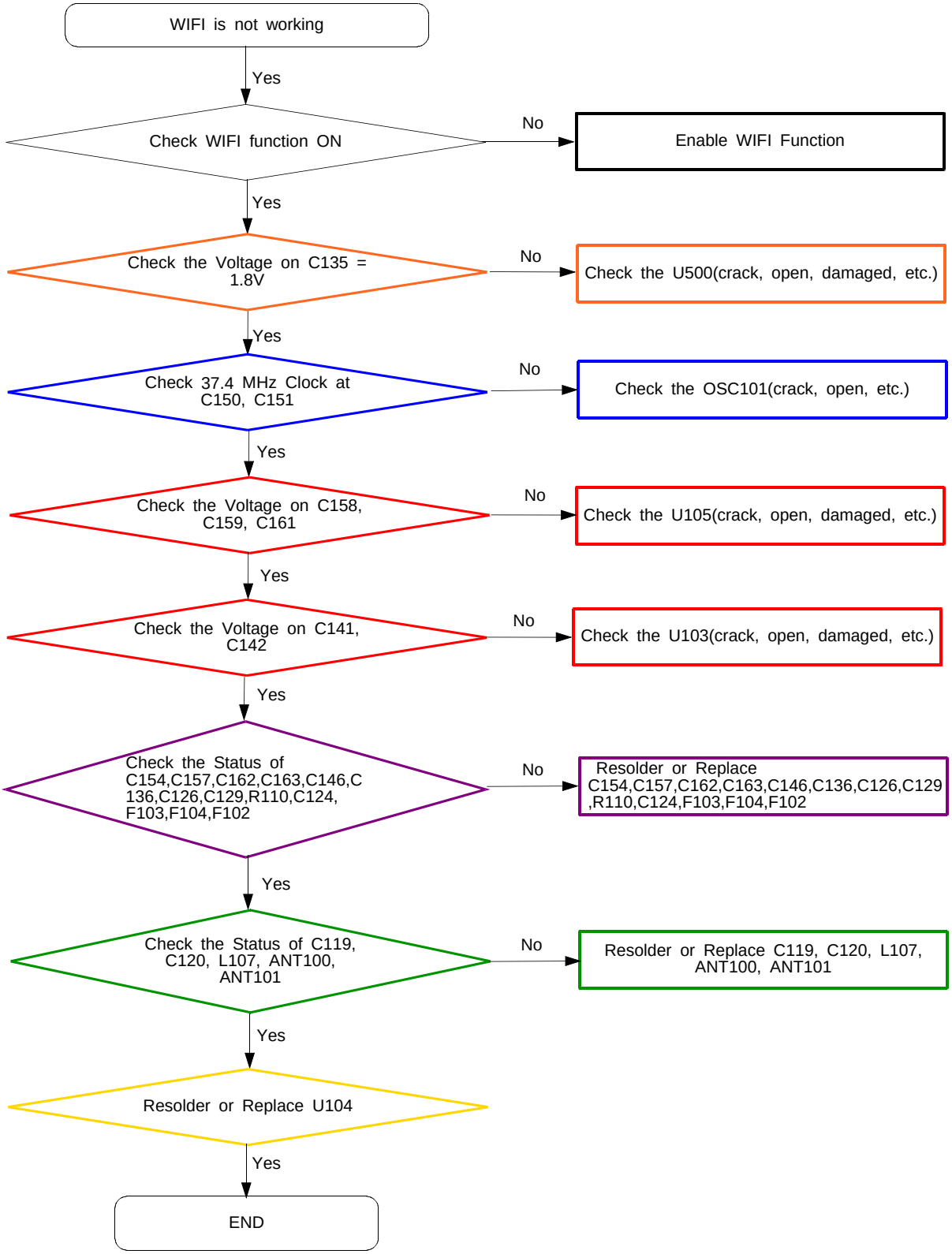
8-3-7. WIFI Part



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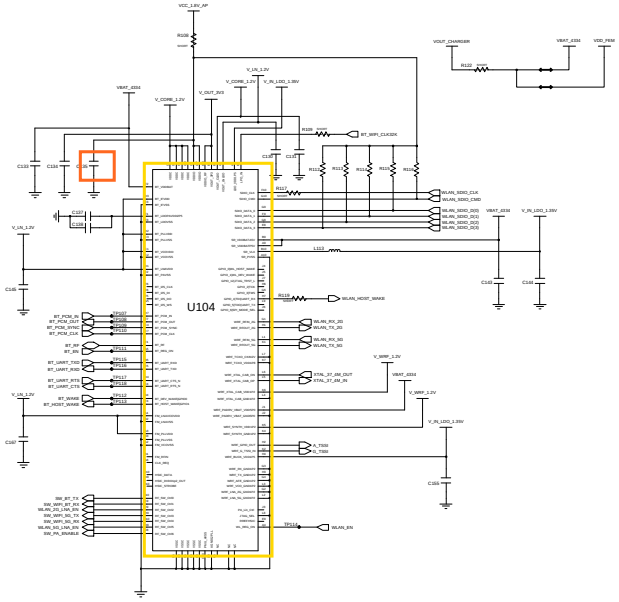
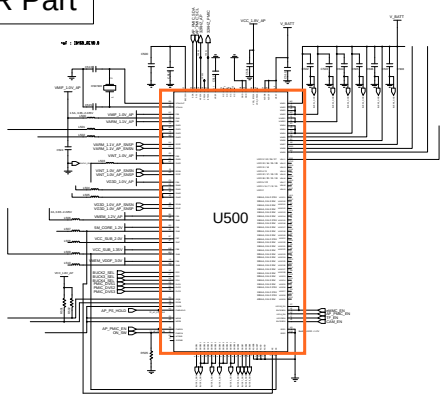
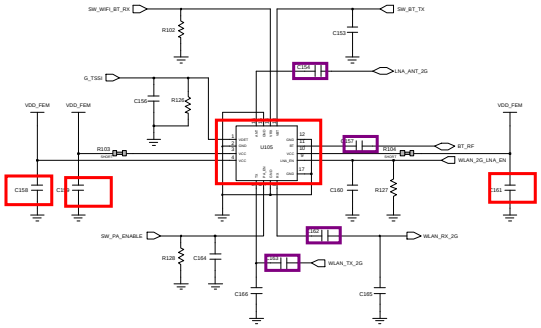
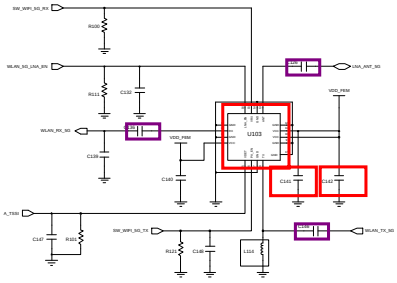


5. POWER Part

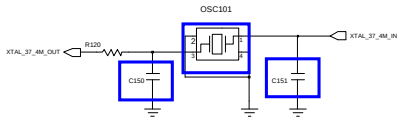




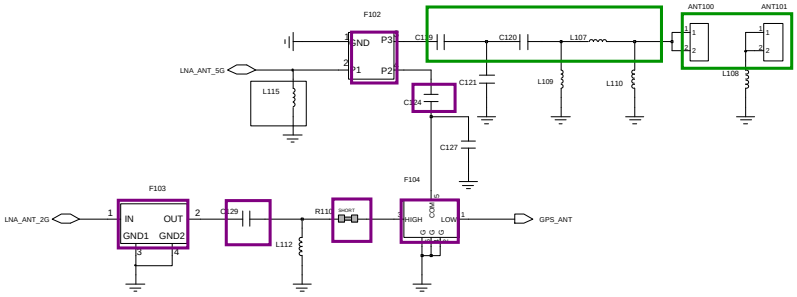
2.5G FEM



5G FEM



BT/WIFI OSC



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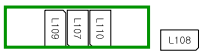
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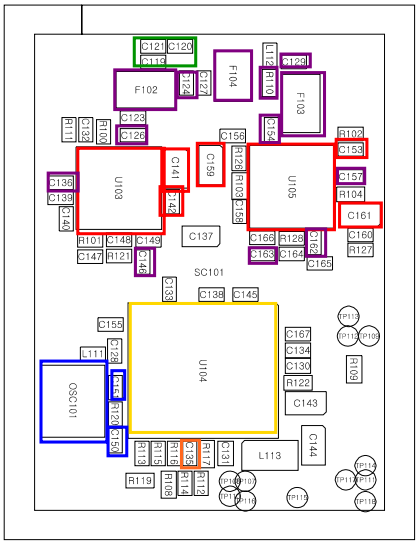
L107
L110
L108


C121
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F102
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R127
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SC101
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C167
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C130
R109
C111
C128
R122
C143
OSC101
C125
R120
C150
C135
C131
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R116
R117
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TP110
TP114
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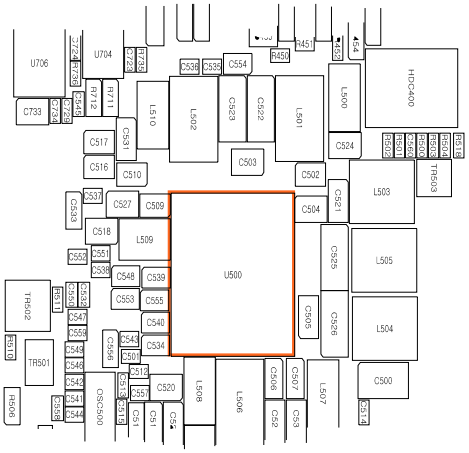
TP117
TP118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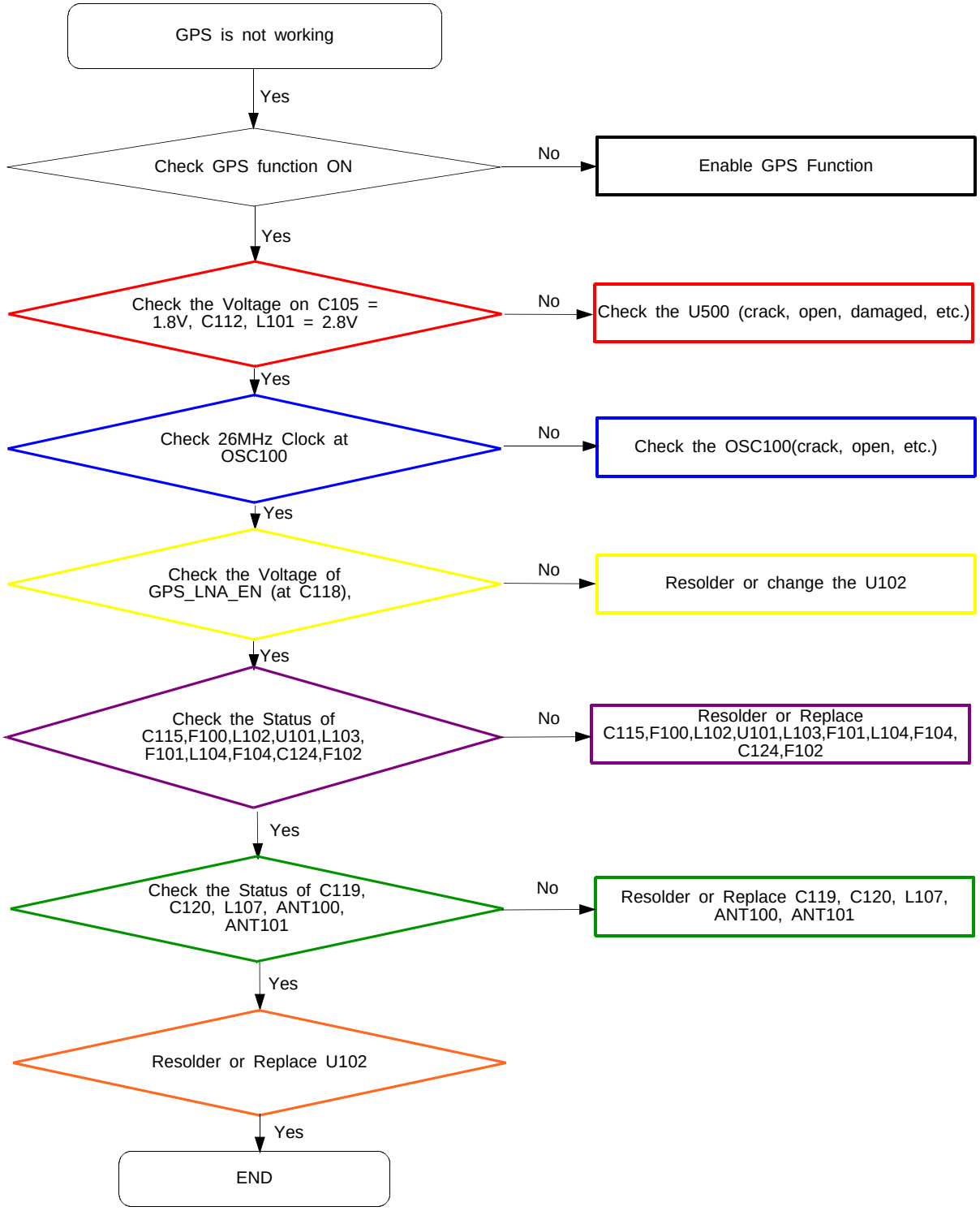
8-3-8. GPS Part



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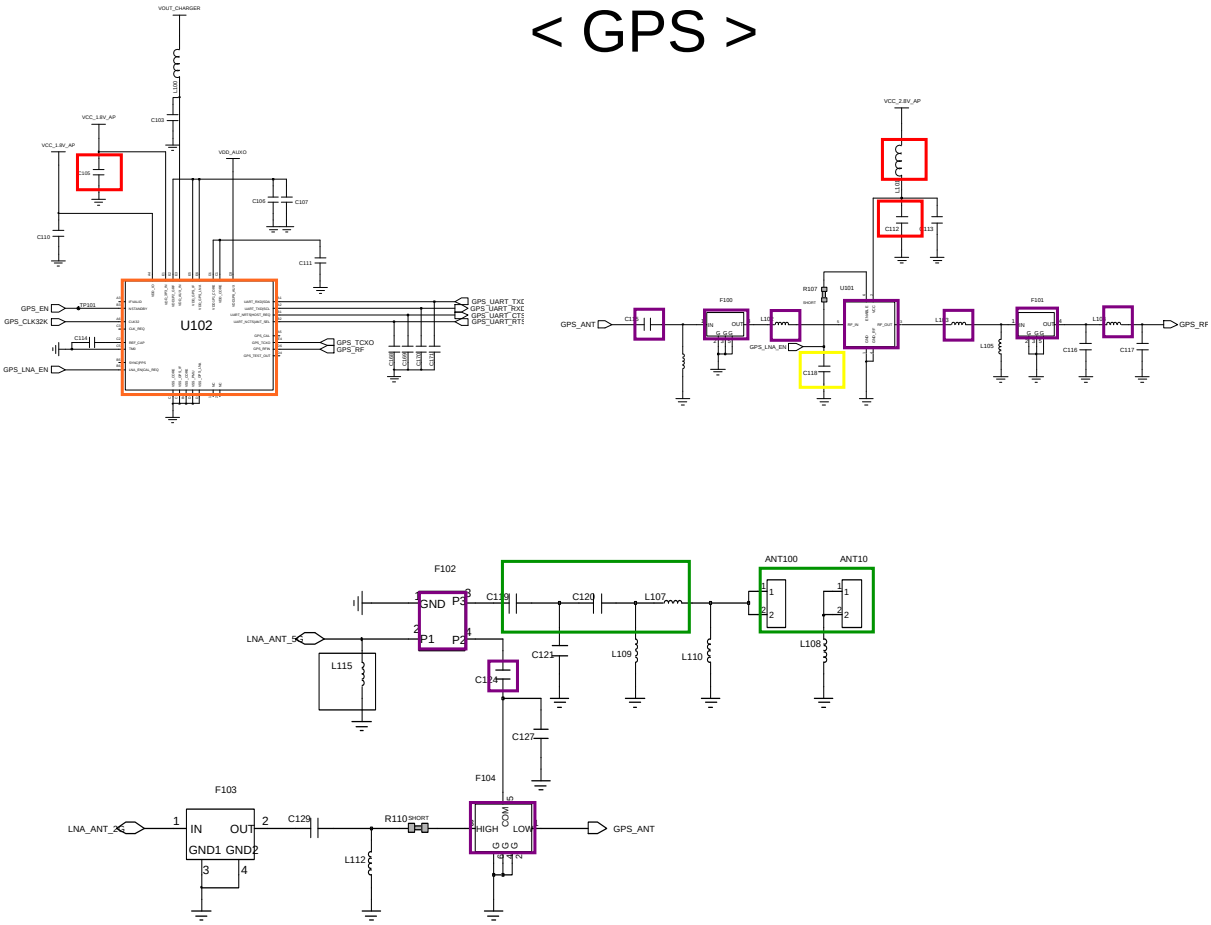
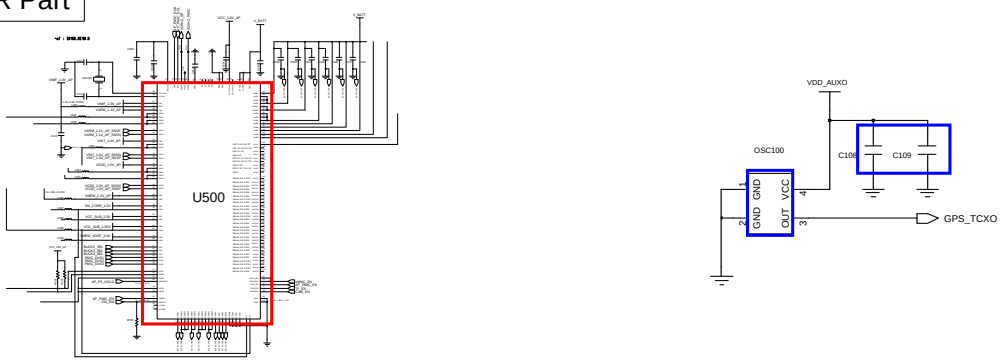
< GPS >



5. POWER Part



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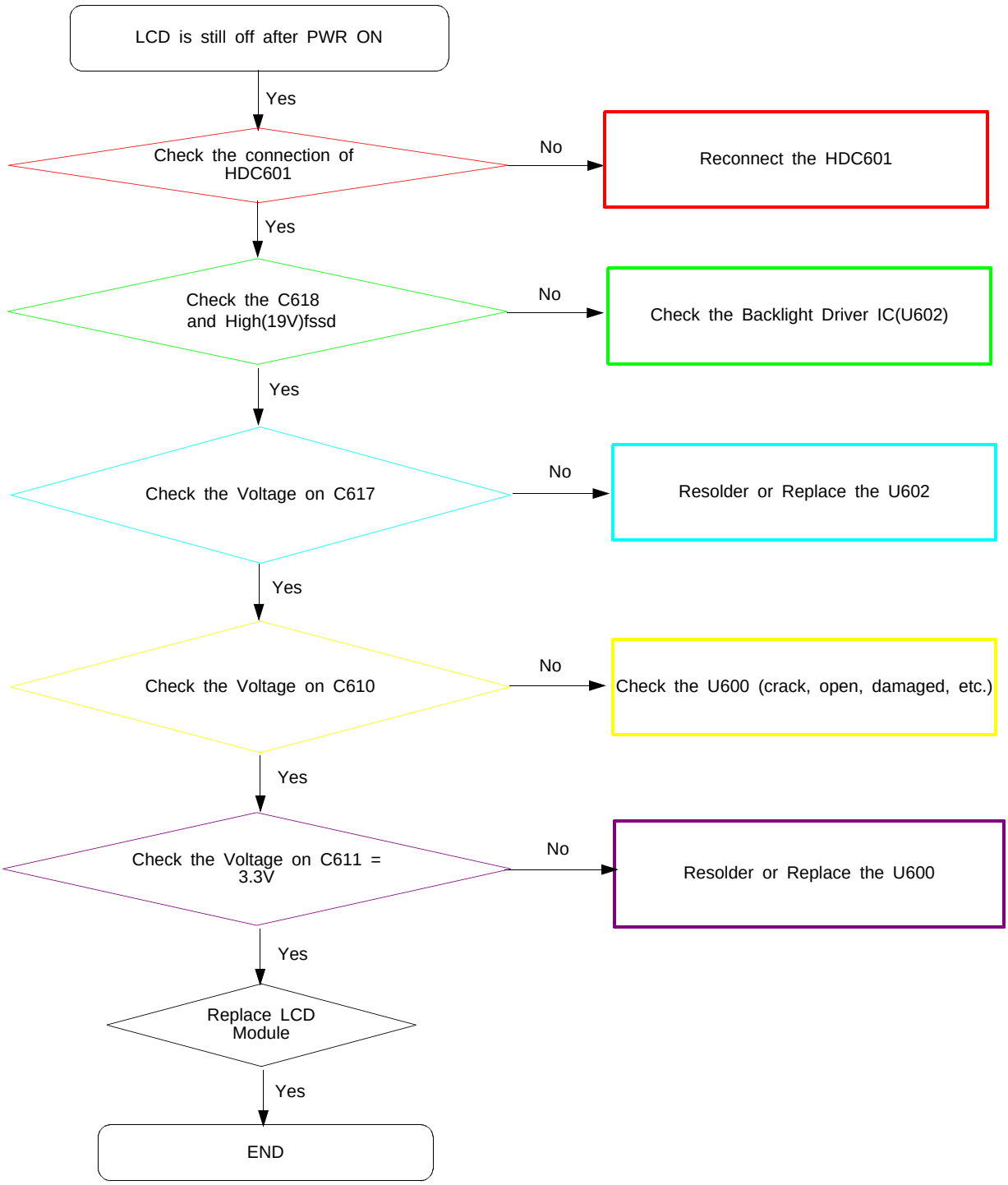
8-3-9. LCD



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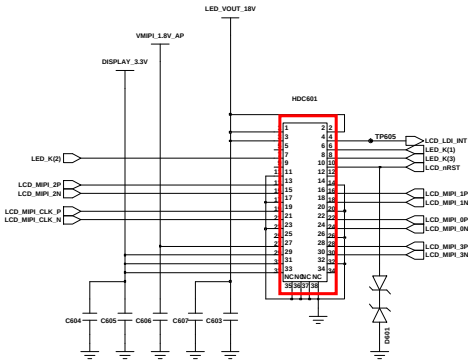

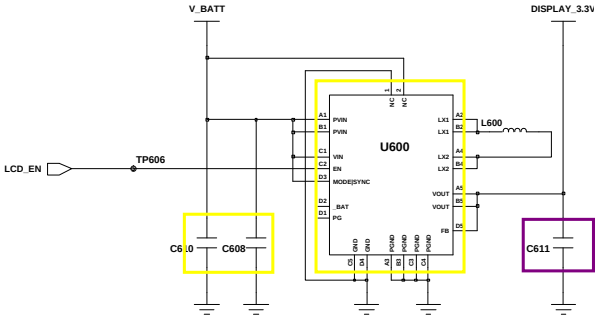

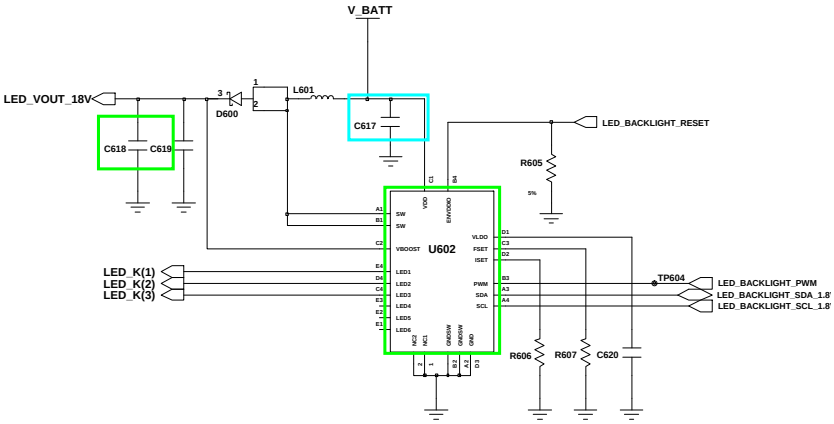

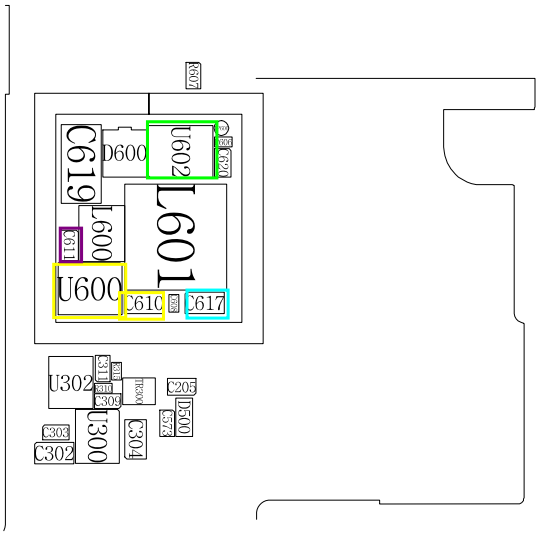

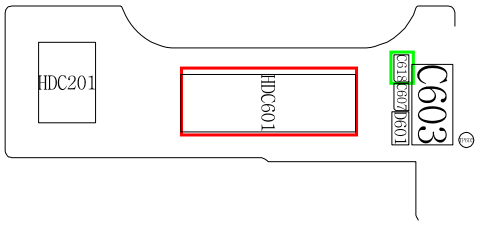

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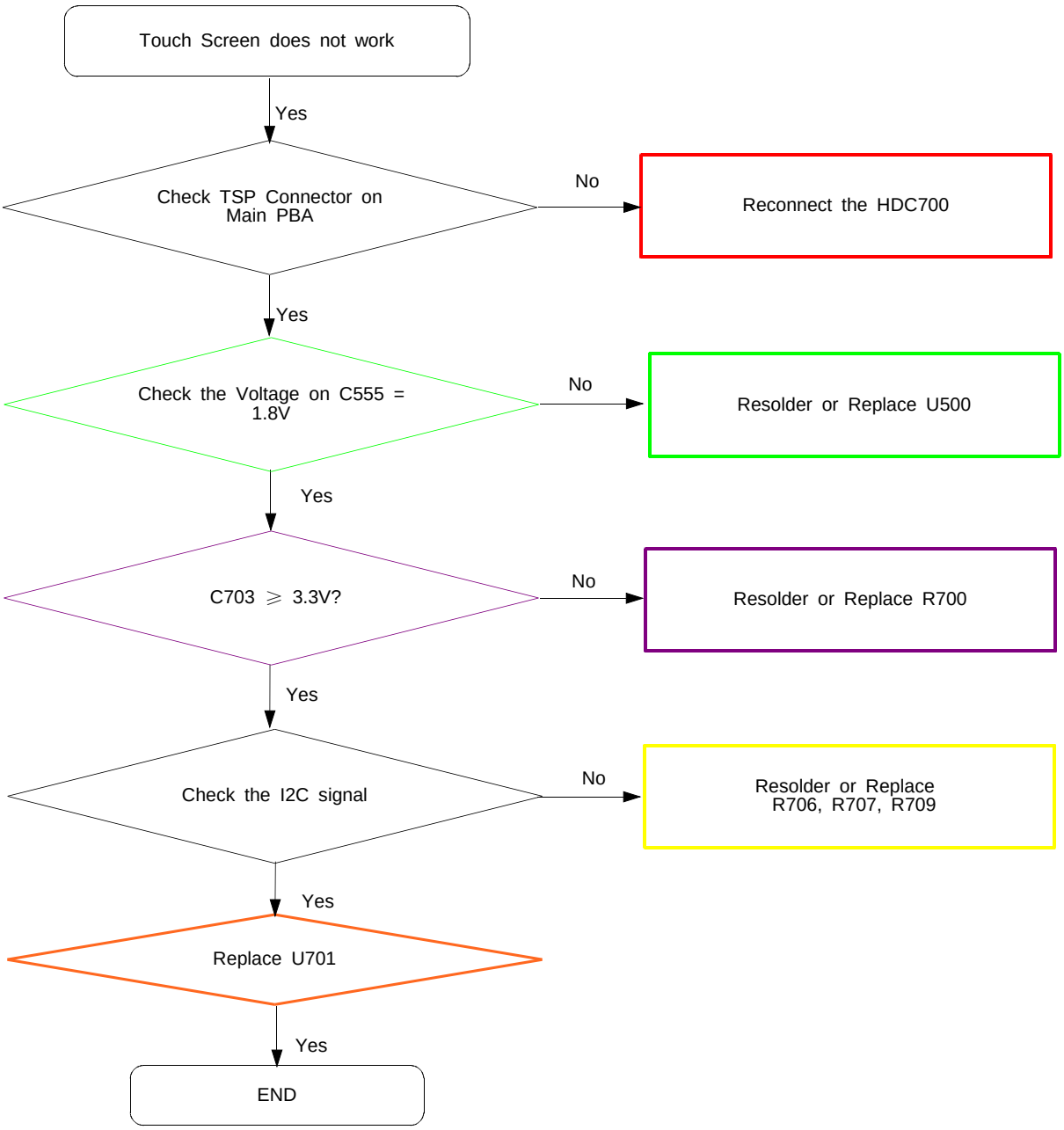
8-3-10. TSP



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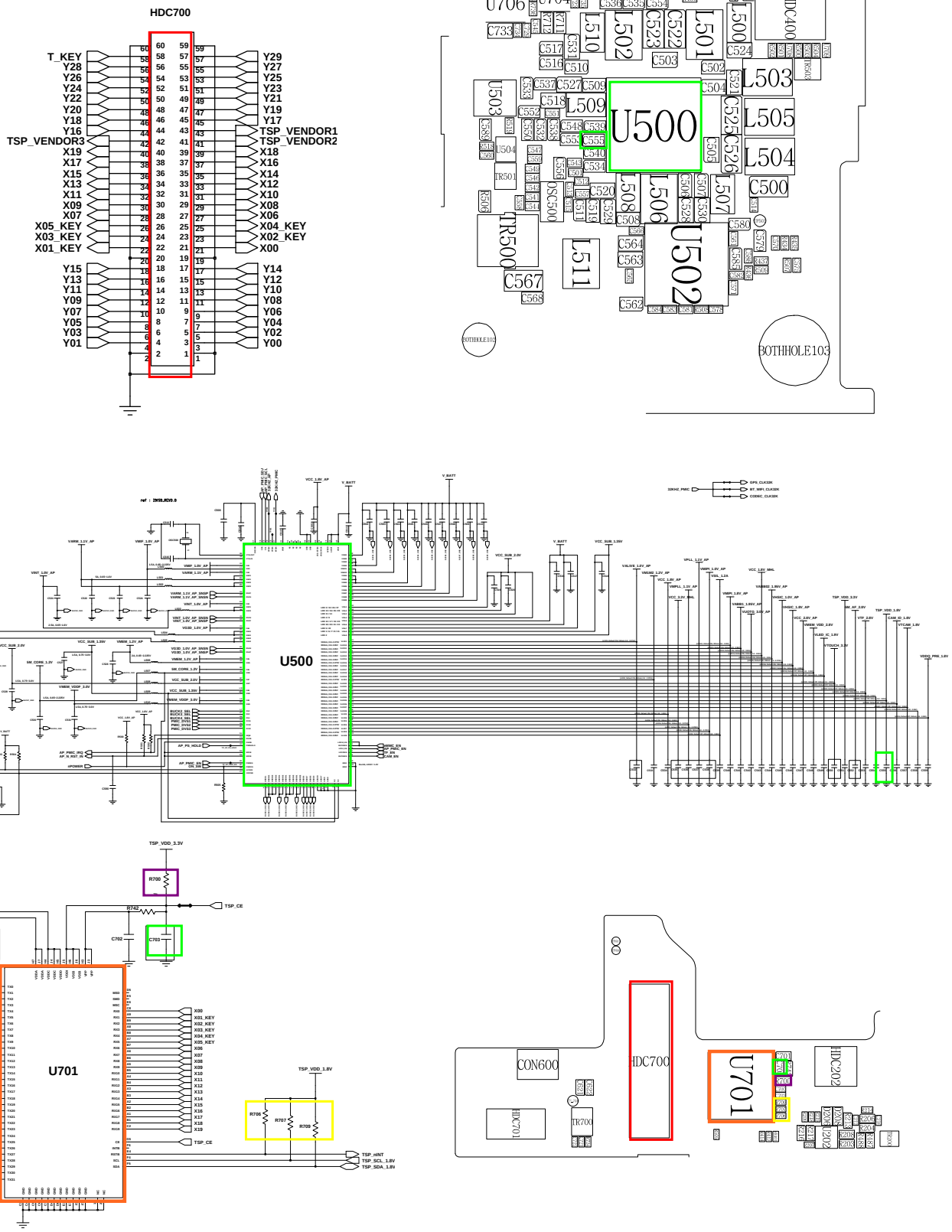

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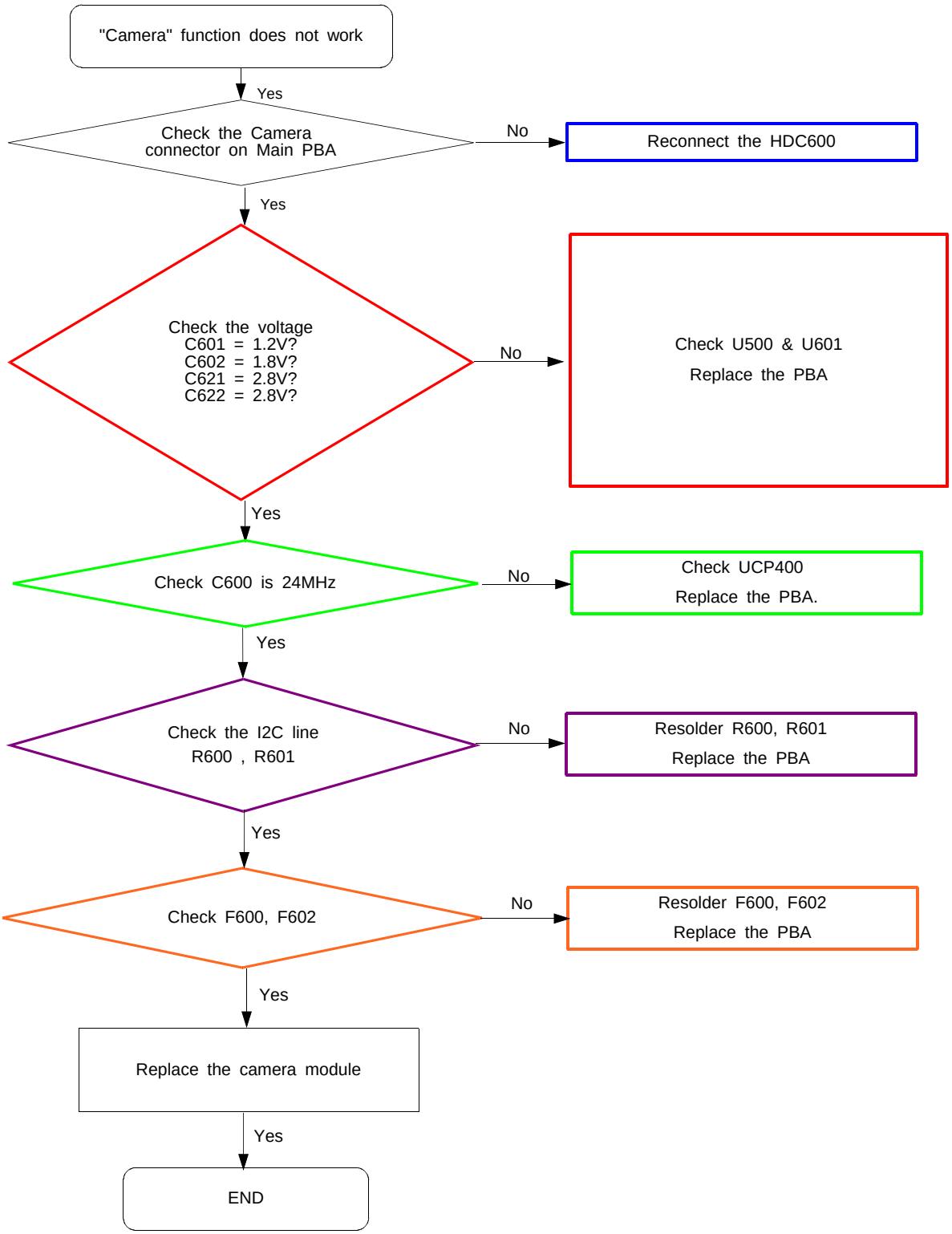
8-3-11. 5M CAM



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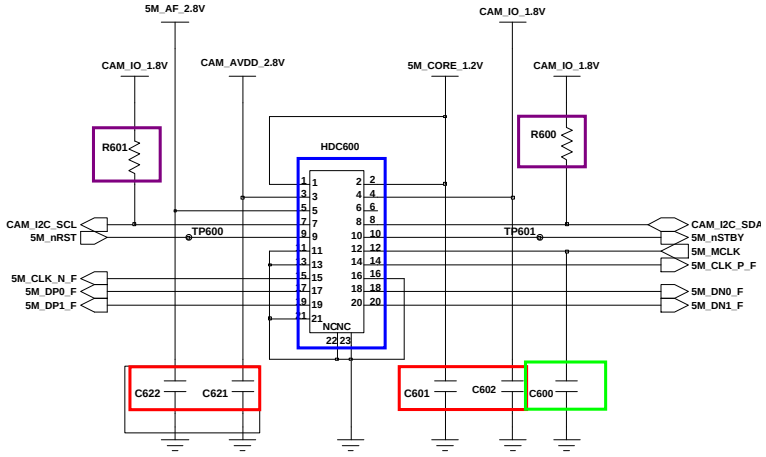

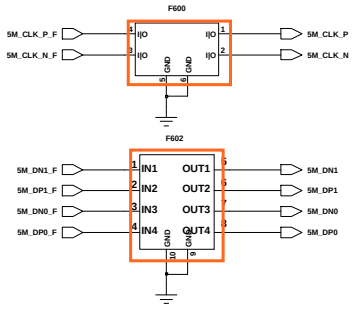

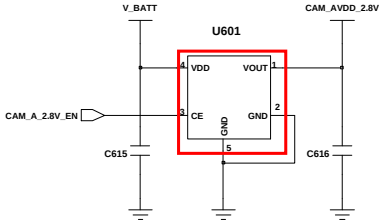

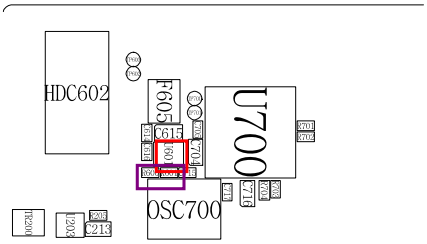

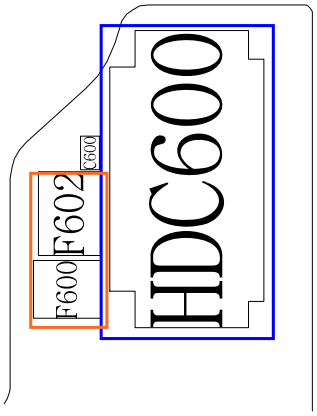

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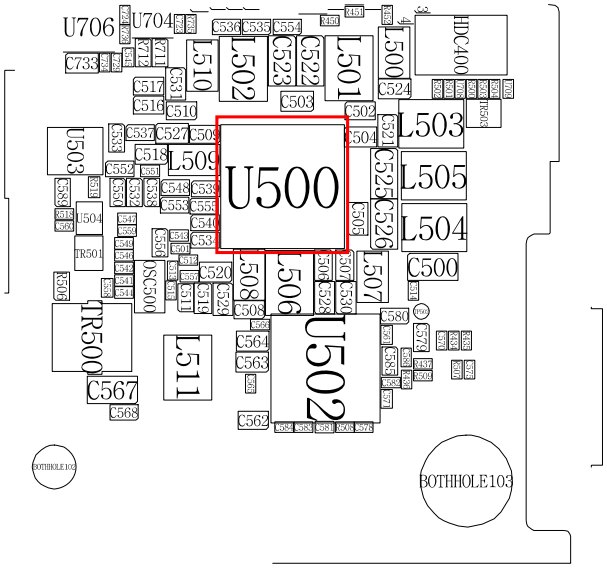

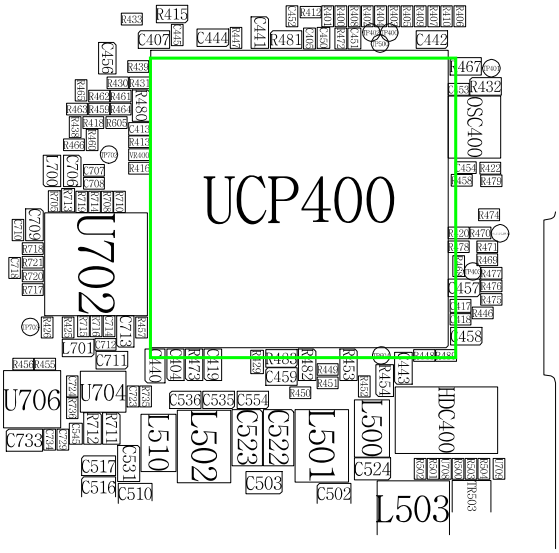

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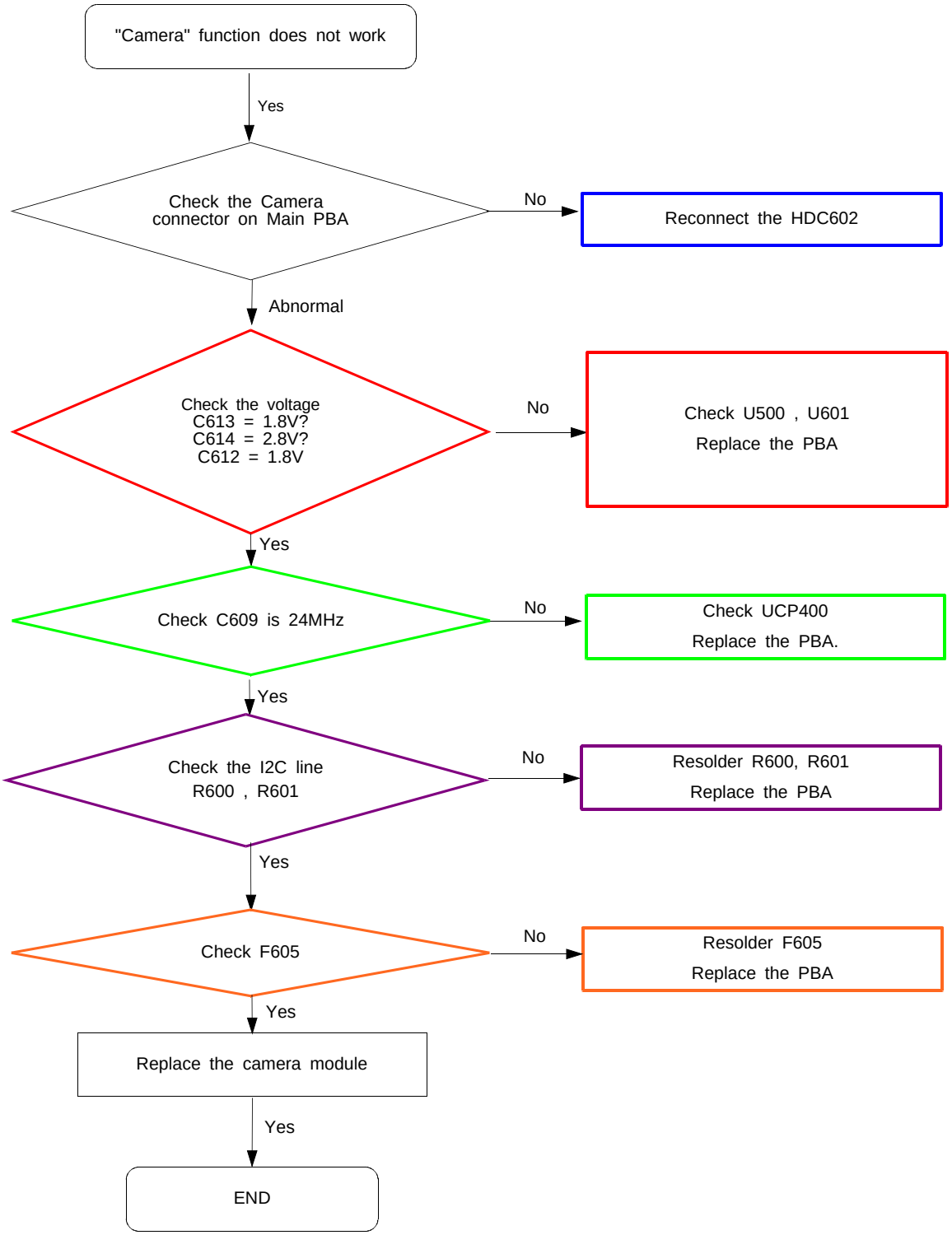
8-3-12. 1.3M CAM



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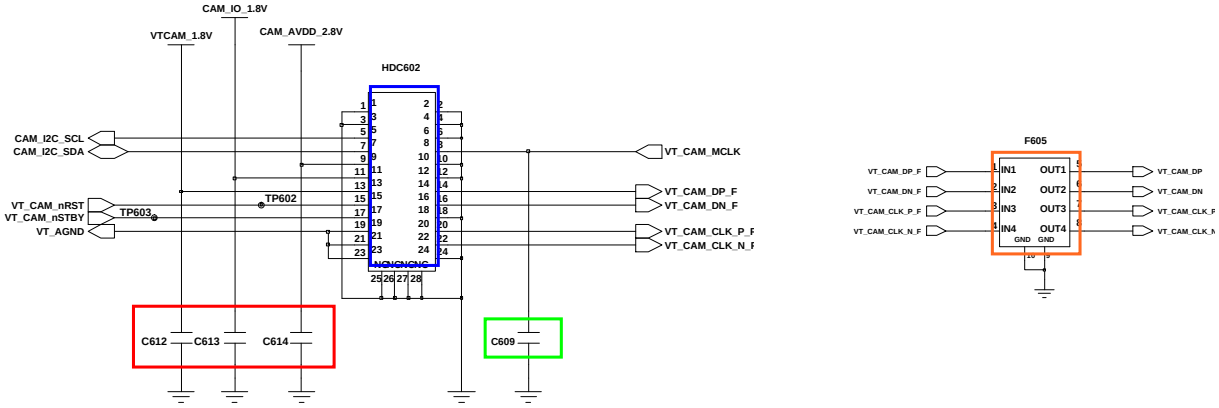

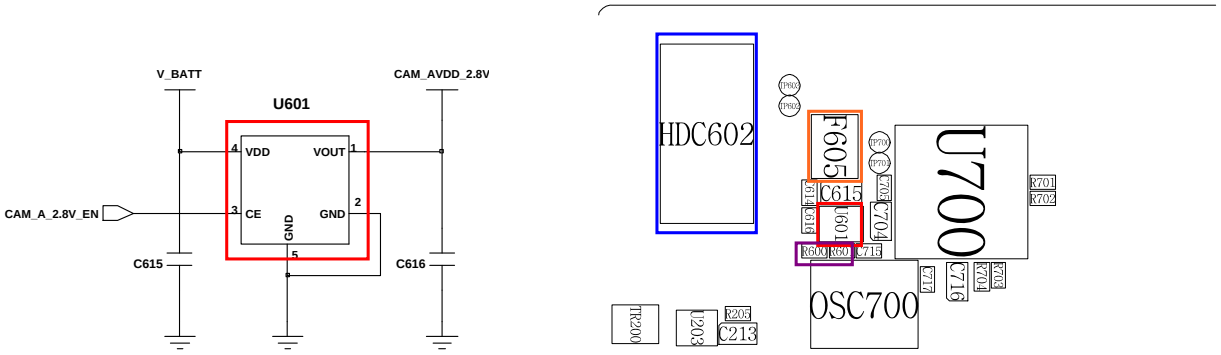

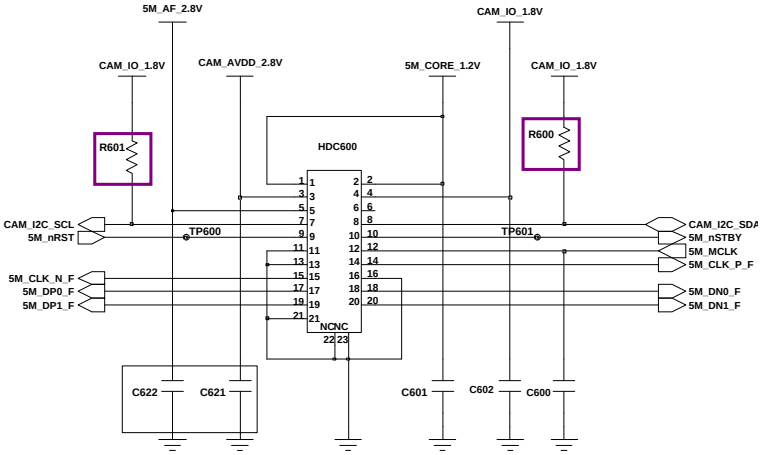

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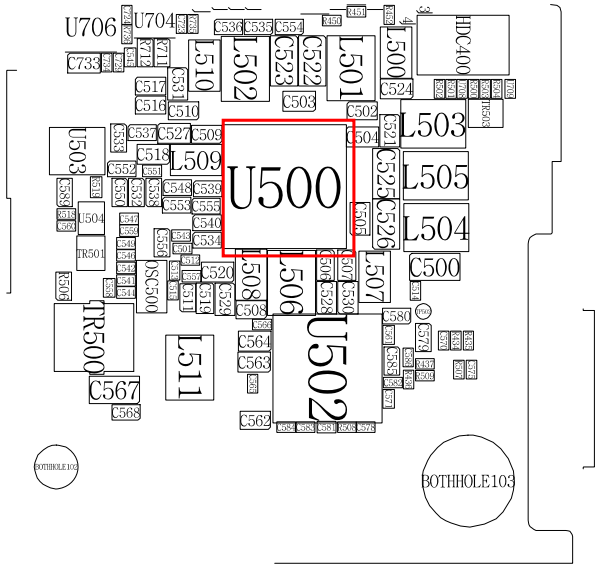

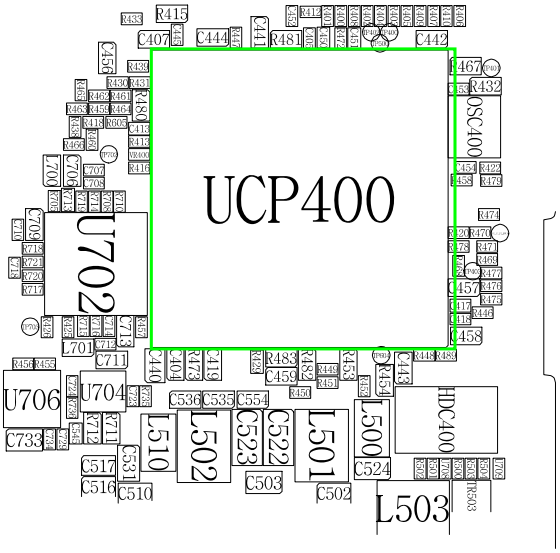

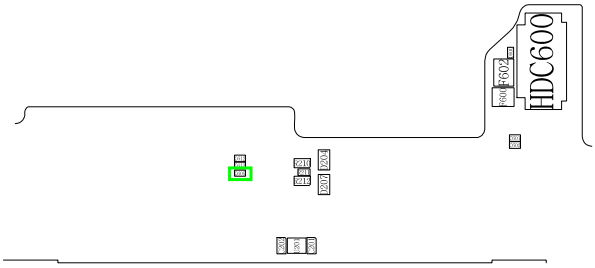

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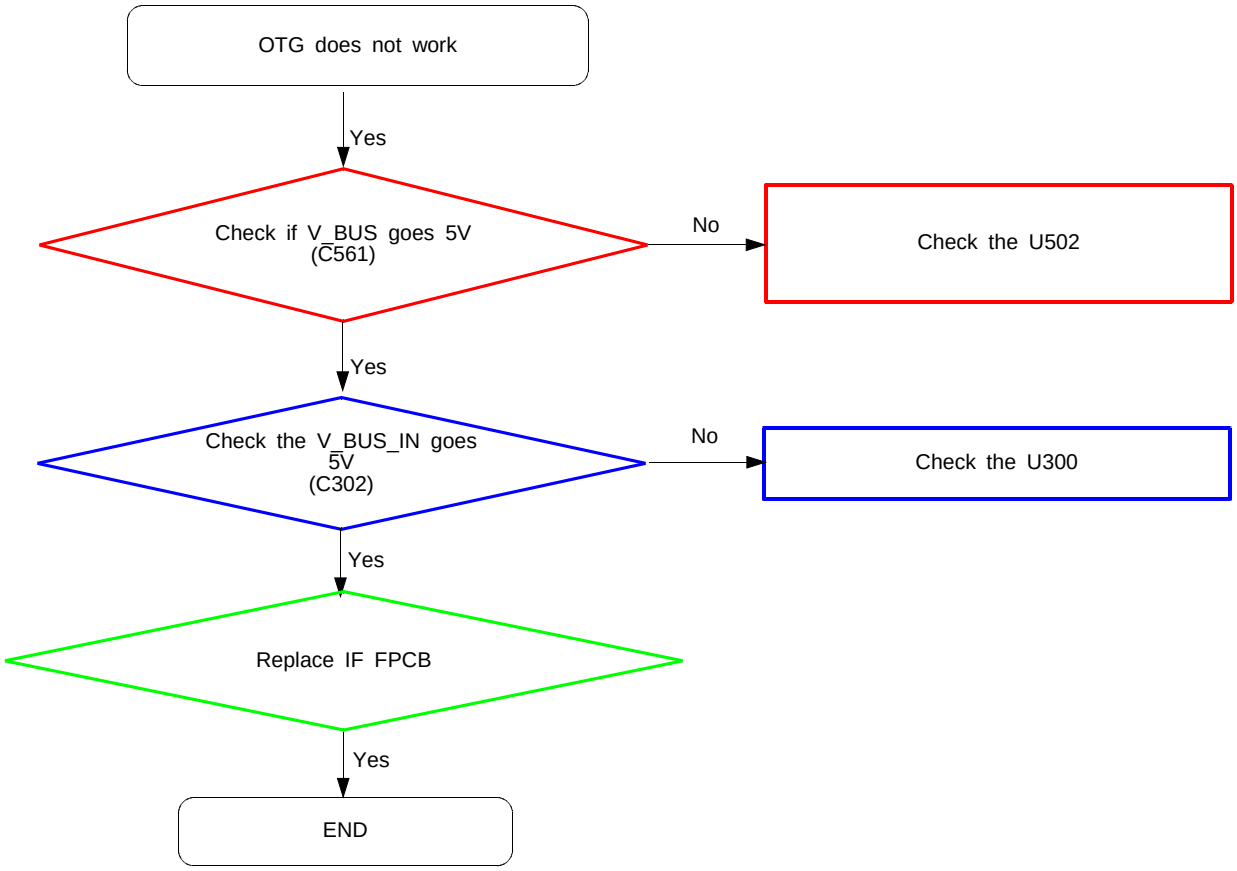
8-3-13. OTG



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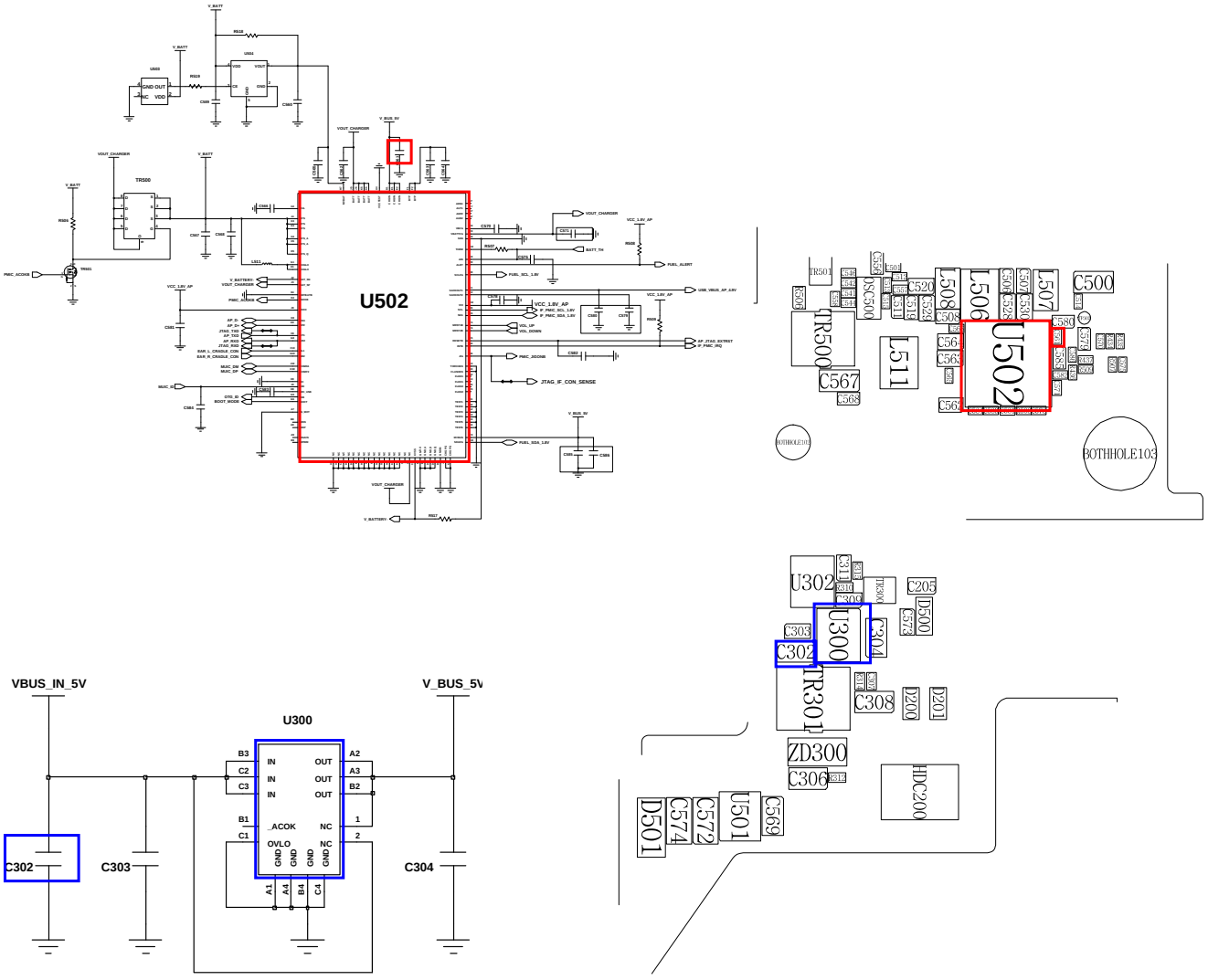
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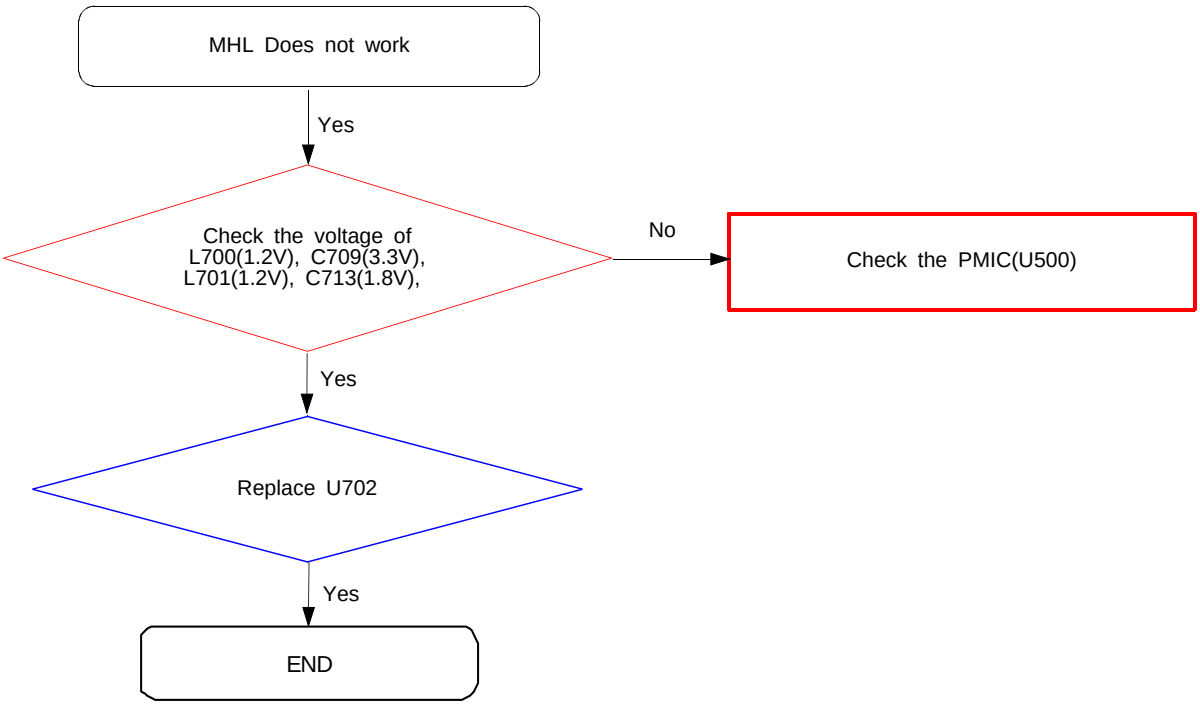
8-3-14. MHL



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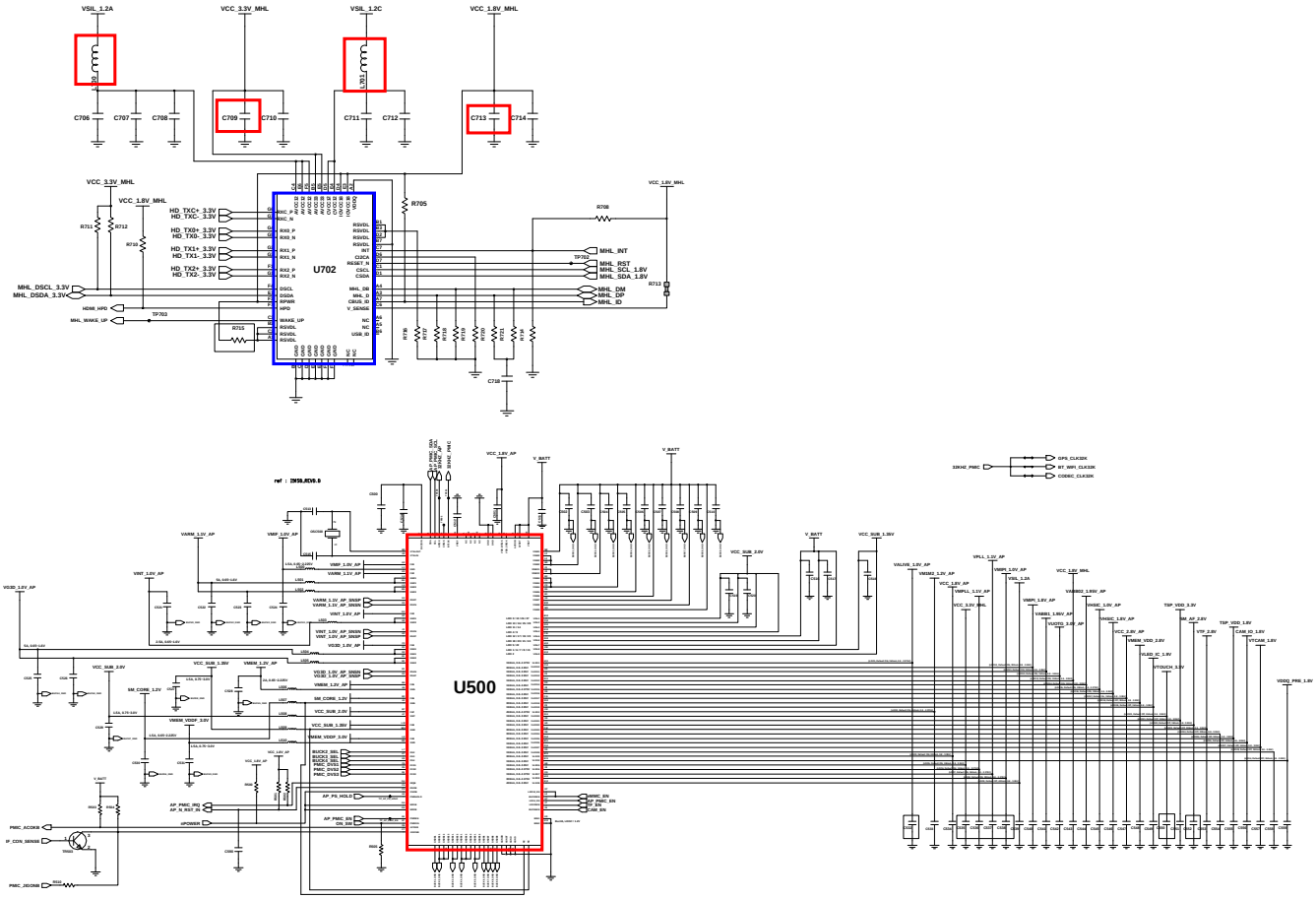

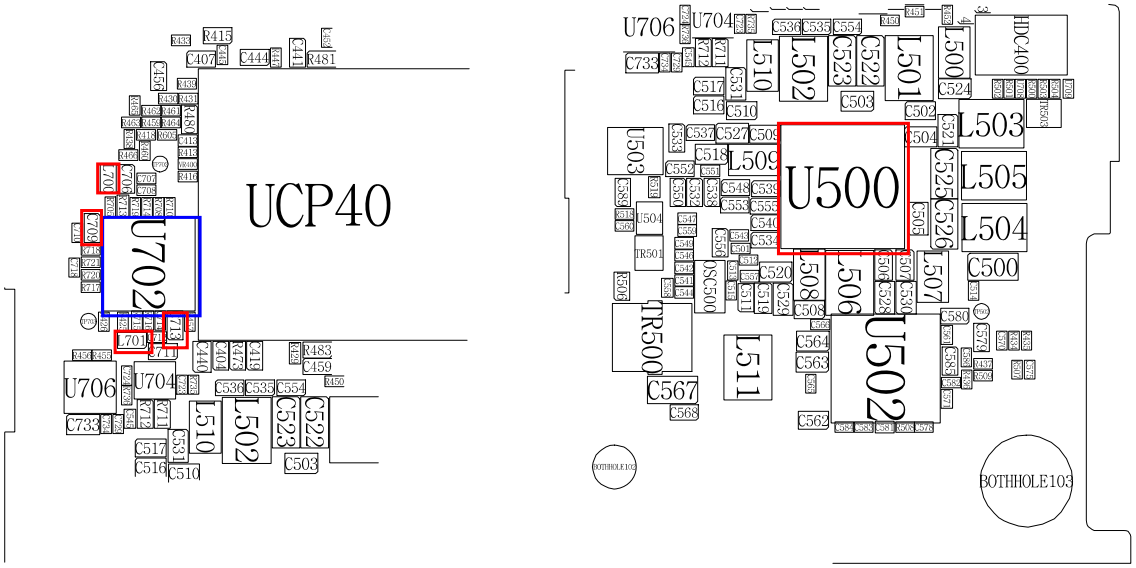

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